

The CHEMIST AND DRUGGIST

F...tailer, Wholesaler and Manufacturer

MAY 5 1956



This attractive display unit is supplied in each package of 1 dozen tins



Morny
OF REGENT ST · LONDON

TALCUM POWDER

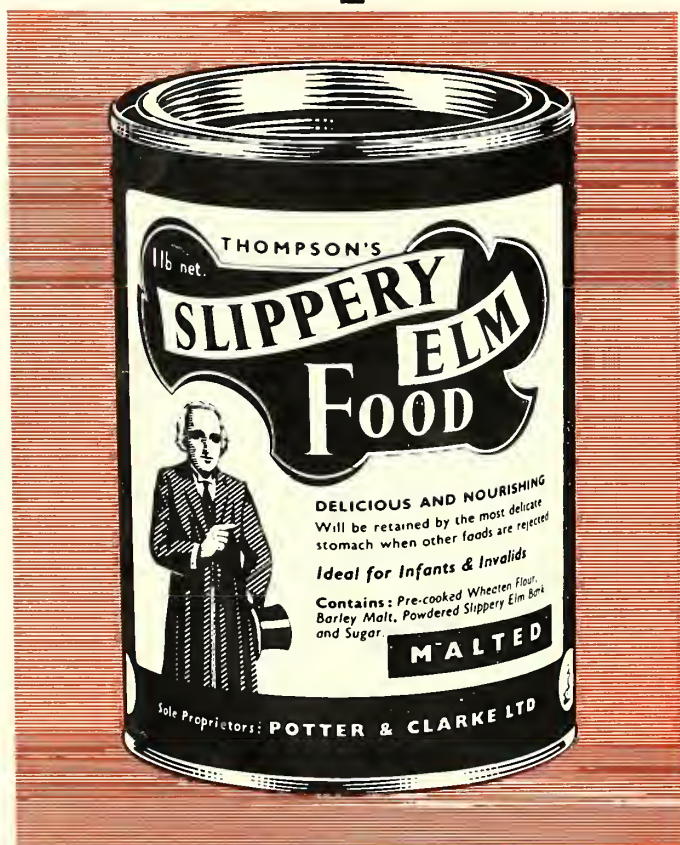
FINE SOAPS

MATCHING BATH LUXURIES · PERFUMES



A TOP-SELLER from the

Potter's range of products



RESEARCH ESTABLISHES THOMPSON'S SLIPPERY ELM FOOD IDEAL IN CASES OF STOMACH WEAKNESS, ULCERS, DIGESTIVE DISORDERS.

Large scale market research into the uses of Thompson's Slippery Elm Food establishes these facts. More and more people are finding it of particular benefit in cases of stomach disorders of all kinds, especially ulcers and some effects of anxiety neuroses.

It is easy to digest, and can usually be retained by the most delicate stomach when other foods are rejected.

But its value as a food beverage is more widespread. Thompson's Slippery Elm Food is a wonderfully nourishing restorative. People find a cupful taken mid-morning relieves fatigue; taken again at night it ensures restful sleep. Its sustaining properties are remarkable. No wonder it ranks as Potter's **BIGGEST SELLING LINE.**

Available in three varieties

**MALTED
UNMALTED
WHOLEMEAL
MALTED**



POTTER & CLARKE LTD · RIVER ROAD · BARKING · ESSEX · Telephone: RIPpleway 3041

THOMPSON'S
SLIPPERY ELM
FOOD

Orders through **WHOLESALERS ONLY** please!

CHEMOTHERAPY



OF TUBERCULOSIS

B-PAS **WANDER** PRODUCTS

These are now in unrestricted supply to provide the significant advantages of the newest clinically proven modification of PAS, i.e., B-PAS (4-Benzoylamino-2-hydroxybenzoic acid).

Extensive published reports based on the criteria of bacteriostatic levels, tolerability and clinical results show that B-PAS (Wander), first introduced by our Research Laboratories in 1948, is a major contribution to tuberculotherapy.

Calcium B-PAS (Wander) is virtually insoluble; hence its slower absorption and excretion, and ability to provide high blood levels of extended duration, but with relatively low dosage. In contradistinction to other forms of PAS, B-PAS (Wander) is entirely free from unpleasant taste. It is thus acceptable to patients in easily taken powder form, as well as in cachets if preferred. The powder form is supplied in convenient single-dose envelopes, or in bulk in any quantity.

PACKS—Powder : Tins of 150 and 500 x 3.5 g. envelopes

Cachets : „ 80 and 400 x 1.0 g.

Sodium B-PAS (Wander) also available in 1.5 g. Cachets.

‘B-PASINAH’ **WANDER** combined B-PAS and Isoniazid (INAH)

To facilitate concurrent administration of B-PAS (Wander) and INAH, this product is formulated so that 12 Cachets daily in divided dosage provides 12 g. of Calcium B-PAS (Wander) plus 300 mg. of INAH.

PACKS—Cachets each containing 1 g. B-PAS (Wander) and 25 mg. INAH: Tins of 100 and 500.

Details of institutional quantities and prices sent on request.

*All Wander tuberculostatic products
are available from usual wholesalers or direct from*

A. WANDER LIMITED

42 Upper Grosvenor Street, Grosvenor Square, London W.1

CANADA : A. Wander Ltd., Peterborough, Ontario. AUSTRALIA : A. Wander Ltd.,
Devonport, Tasmania. NEW ZEALAND : A. Wander Ltd., Christchurch. INDIA :
Messrs. Khatau Valabhdas & Co., Indian Globe Chambers, Fort Street, Fort, Bombay, 1.
PAKISTAN : Grahams Trading Co. (Pakistan) Ltd., P.O. Box 30, Karachi.
CEYLON : A. Baur & Co., Ltd., Colombo.

T.40





LANCÔME

are appointing
new agents

and are advertising heavily in 1956.

IT IS FACT that every retailer who stocks Lancôme preparations reports a noticeable increase in sales turnover.

Join in the rapid expansion of this famous French perfume and cosmetic House. The high quality of Lancôme preparations is a by-word everywhere.

**Attract the buying public by becoming
a Lancôme agent yourself.**

Details from :—

LANCÔME

14 Grosvenor Street, London, W.1.

Telephone : MAYfair 3971



ODO-RO-NO

leads again with the best stick deodorant ever!

List Price Retail price
16/8d. each Inc. Tax
per dozen. 2/6d.

The top name in deodorants!

ODO-RO-NO now brings
out the deodorant stick
with a difference...

Bonus for the month of MAY

ON ALL
ODO-RO-NO
PRODUCTS

In return for 14 days
Window Display all
orders of £4 and over
(list value) will be in-
voiced twelve for the
price of eleven, and, in
addition, 5% display
discount will be given.

No foil to peel off ★ No left-
over ends ★ No messy fingers ★
Just like a *giant* lipstick ★ Screw
off the cap and it's ready for use.
Your customers will love it!
because—

The NEW ODO-RO-NO Stick
is the most effective deodorant
and anti-perspirant stick on the
market.

	List Price Per Doz.	Retail Price Inc. Tax.
301 Liquid Regular (red)	13/4	2/-
305 Liquid Regular (red)	6/8	1/-
311 Liquid Instant (white)	13/4	2/-
315 Liquid Instant (white)	6/8	1/-
321 Cream	16/8	2/6
327 Cream	10/6	1/7
341 Spray	21/-	3/2
375 Stick	16/8	2/6

The month of May
brings great new
advertising too!

A new campaign that will be
seen by over 47 million women.
It will appear in all the news-
papers and magazines women
like, those they rely on for
beauty news and advice.
This advertising will appear in:-

Daily Mirror
Woman's Sunday Mirror
Sunday Pictorial
Woman
Woman's Own
Woman's Weekly
Woman's Illustrated
Lucky Star Group
Oracle & Miracle
My Home
Heiress
Woman & Beauty
Woman & Home
Wife & Home
Modern Woman
True Magazines
True Story & True Romances
Good Taste
Feminine Six Group
Weekend Reveille
Homes & Gardens
Everywoman
Vanity Fair
Photoplay
She
Vogue Knitting Book
Vogue Pattern Book

High frequency makes it
possible for an Odo-Ro-No
advertisement to be seen nearly
384,000,000 times this summer!

ODO-RO-NO outsells all other deodorants.



Be prepared
for
Summer
Sunshine!

Esoban De Luxe Cream of Calamine will once again be in great demand this summer for the ease and comfort it brings to sufferers from sunburn, skin irritation, chafing and eczema. Build up your stocks now.

ESOBAN De Luxe CREAM OF CALAMINE

Special Seasonal terms
33½% discount and bonus 13 to the doz.
PLUS

5% on £5 and 10% on £10 direct orders in return for 14-day counter and window display.



*SEND FOR ATTRACTIVE SHOW MATERIAL
SOUTHON LABORATORIES LTD.
88, UPPER RICHMOND ROAD, LONDON, S.W.15.



LARGE SIZE
3/- (inc. tax)
HANDY PACK
1/7 (inc. tax)

A NEW "Eesiness" PRODUCT

"Vernon"

LIGHTWEIGHT NYLON
ELASTIC YARN SURGICAL
STOCKINGS. N.H.S.

- CLOSED TOES 8½", 9", 9½", 10" and 10½" in foot sizes
- OPEN TOES in sizes Small, Medium and Large
- Special finish with extensible nylon giving a modern matt appearance and exceptional comfort
- Closed toe type may be worn with or without overstocking
- Conforming to N.H.S. specification and available for supply against E.C.10 forms

Each pair packed in attractive cellophane envelope and in outer boxes of six pairs.

TRADE PRICE
35/6 per pair

Wholesale terms on application

E. SALLIS LTD.

VERNON WORKS · BASFORD · NOTTINGHAM
Phone: NOTTM. 77841/2 Grams: "EESINESS"

First class facilities for

MANUFACTURE PACKING AND DISTRIBUTION OF TABLETS, LIQUIDS, POWDERS



Better products well packed for HOME and Export.
Tell us what you want — we'll do the rest.

**THOMAS
MARN'S LTD.,**
GREEN LANE,
HOUNSLOW
HOUNSLOW 5122

BURROUGH'S ABSOLUTE ALCOHOL

JAMES BURROUGH LTD. 1 CALE DISTILLERY LONDON S.E.11

TRADE 'VERLOG' MARK

SURGICAL ELASTIC HOSIERY

Belts, Trusses, Suspensory Bandages, etc.

ATHLETIC SUPPORTS

Knee Caps, Anklelets, Jockstraps

THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM
Tel.: 58227 (2 lines). 'Grams: Verlog, Nottingham

LABORATORY NATIVELLE LTD., presents:

NATISEDINE

A new GENERAL SEDATIVE with
elective cardiac action

Each tablet contains:

Phenylethylbarbiturate of Quinidine: 0.10 gm.

A new, crystalline salt of high purity, stable
and with definite physical characteristics.

Tube of 20 Retail price 10/9
Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD

74 White Lion Street, London, N.1

Other lines: NATIVELLE'S DIGITALINE—OUABAIN ARNAUD
IODHEMA—NATIROSE

Dispensing

CORKS?



Immediate delivery from
RANKIN BROTHERS & SONS
(RANKIN PARTNERS, LTD.)

OWNERS OF THE FINEST
CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.1
Telephone: HOP 0074

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NEW

IMPROVED FORMULA ●

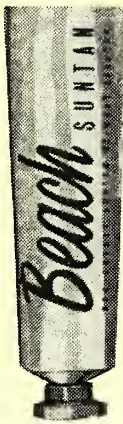
NEW PACK ●

CONTEMPORARY DESIGN ●

Trade Price 15/- per dozen
Display cartons of 6 tubes
Retail 3/- per Tube (inc. P.T.)

Bonus on direct orders:—
13 to the dozen plus
5% discount on orders for 3 dozen
or 7½% on 6 dozen.

An attractive display card
is now available.



Beach
SUNTAN

SOLD THROUGH CHEMISTS ONLY



THE BRITISH DRUG HOUSES LTD. LONDON N.1

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SCHERK's Big New Advertising Campaign!

STARTING IN MAY — GOING ON AND ON — HALF-PAGES IN

WOMAN * WOMAN'S OWN



From the end of May, the 5,730,000 readers of WOMAN and the 4,960,000 readers of WOMAN'S OWN will be regularly and persuasively reminded that "Beauty begins with SCHERK." The keen and growing interest stimulated in this receptive market will inevitably be reflected in greater demand from your customers: will bring in new customers. Don't be taken by surprise. Stock up with SCHERK now.

A PROFIT OF 36.2% ON YOUR TAX-INCLUDED COST

Send in the order shown opposite — or its equivalent — to get a special 10% cash-and-display discount, giving you a clear profit of 36.2% on the tax-included cost. This offer will remain open only until the end of June.

SUGGESTED MINIMUM ORDER

Scherk Face Lotion: 1 doz. No. 7109 at 18/6, ½ doz. No. 7100 at 28/6, ¼ doz. No. 7101 at 44/6.

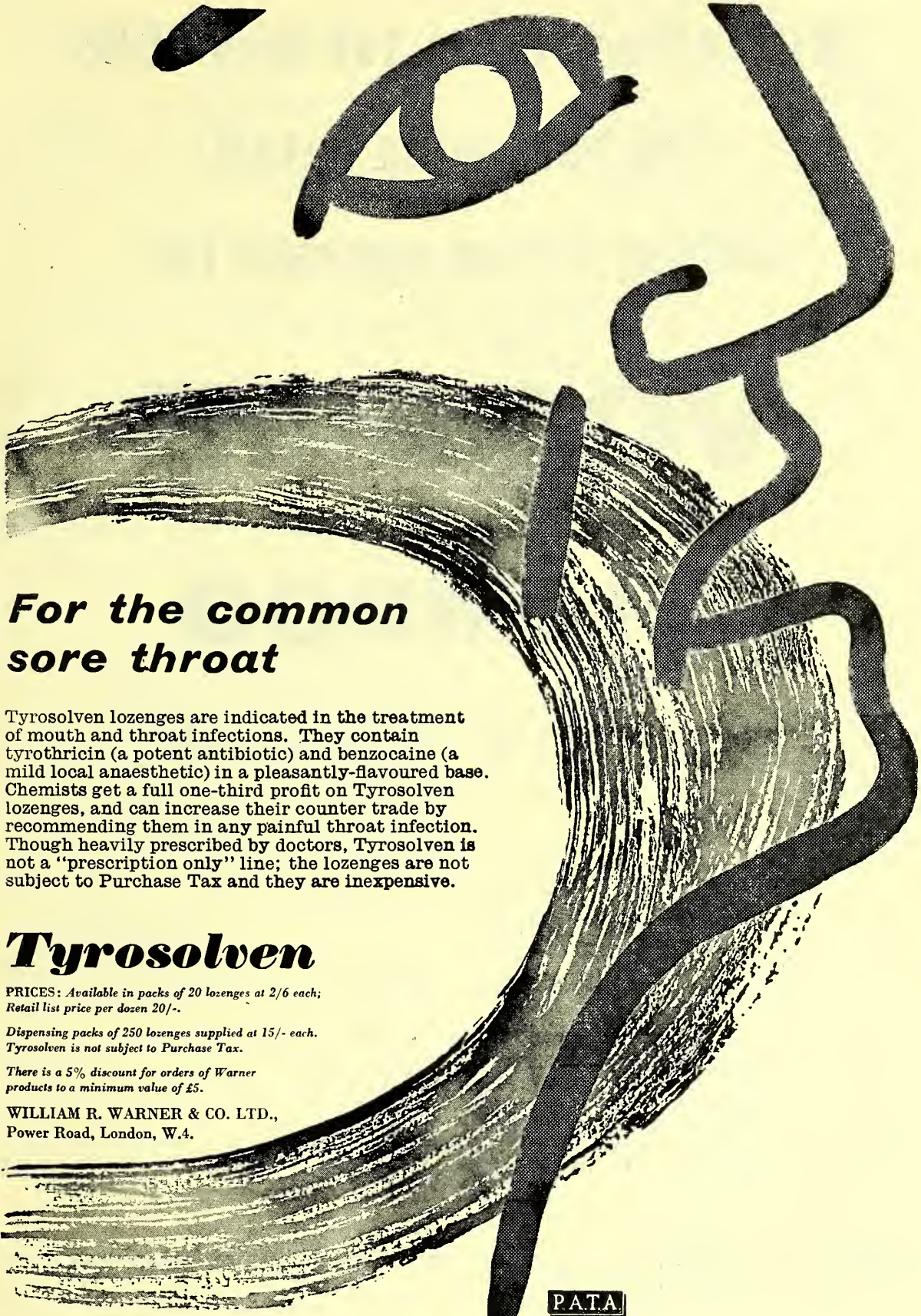
Scherk Face Milk: ½ doz. No. 7200 at 28/6, ¼ doz. No. 7201 at 44/6.

TOTAL COST, including 90% P.T. and allowing for discount — £6.1.6. Retail Price — £8.5.6 . . .

PROFIT — £2.4.0

Scherk Limited, 66 Victoria St., London, S.W.1

Telephone: Victoria 9151



For the common sore throat

Tyrosolven lozenges are indicated in the treatment of mouth and throat infections. They contain tyrothricin (a potent antibiotic) and benzocaine (a mild local anaesthetic) in a pleasantly-flavoured base. Chemists get a full one-third profit on Tyrosolven lozenges, and can increase their counter trade by recommending them in any painful throat infection. Though heavily prescribed by doctors, Tyrosolven is not a "prescription only" line; the lozenges are not subject to Purchase Tax and they are inexpensive.

Tyrosolven

PRICES: Available in packs of 20 lozenges at 2/6 each;
Retail list price per dozen 20/-.

Dispensing packs of 250 lozenges supplied at 15/- each.
Tyrosolven is not subject to Purchase Tax.

There is a 5% discount for orders of Warner
products to a minimum value of £5.

WILLIAM R. WARNER & CO. LTD.,
Power Road, London, W.4.

PATA

With effect from 1st May 1956
the following retail
selling prices operate for

VOSENE
MEDICATED
SHAMPOO

Small size 1/9 Large size 3/9

Trade terms are as follows :

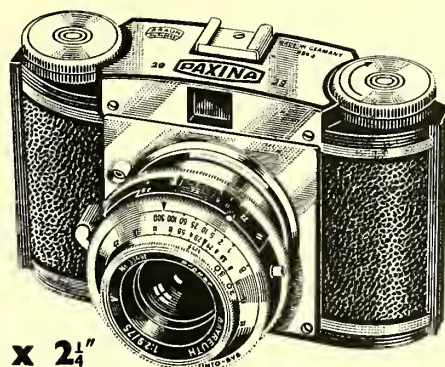
STANDARD WHOLESALE PRICE/DOZ	PURCHASE TAX/DOZ
V1 Small size 12/9d	3/10d
V2 Large size 27/2d	8/2d

The usual parcel terms apply

Your customers
can afford
good cameras —
if they're
Carl Braun!

**CAN YOU AFFORD
NOT TO STOCK THEM?**

Here are three tried
and proved models, backed
by the unrivalled Nebro service



2½" x 2½"

Paxina

29

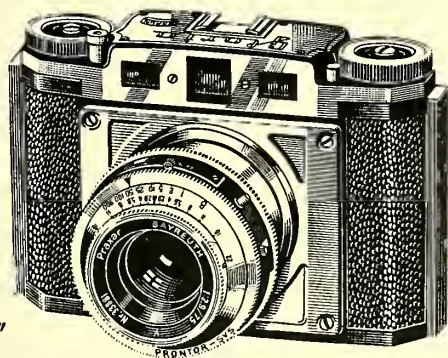
Takes 12 2½" x 2½"
pictures on size 120 roll
film. High speed f/2.9
Praxar Bayreuth anastig-
mat lens, two alternative

Gauthier shutters, flash-synchronised, and with delayed
action release. Focusing from 3½ft. to infinity. Optical
viewfinder, shutter release socket, accessory shoe, depth
of field and focusing scales, and tripod bush.

PAXINA 29 with f/2.9
Praxar Bayreuth lens, in
Pronto 4-speed shutter
£14.14.0

PAXINA 29 with f/2.9
Praxar Bayreuth lens, in
Prontor S.V.S. 8-speed
shutter **£17.17.0**

Leather Ever-ready case £2. 17. 0



2½" x 2½"

Gloria

High speed f/2.9
Praxar lens system,
world-famous Gauthier
shutter, synchronised for
flash, and with delayed
action release. Focusing

from 3½ft. to infinity. Built-in rangefinder, automatically
extending front, double exposure prevention device,
accessory shoe, depth of field scale. Leather-covered
body with smart chrome trim.

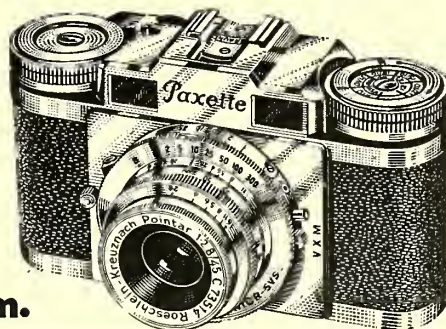
GLORIA with f/2.9 Praxar
Bayreuth lens, in Pronto
4-speed shutter

£19.19.0

GLORIA with f/2.9 Praxar
Bayreuth lens, in Prontor
S.V.S. 8-speed shutter

£23.10.0

Leather Ever-ready case with strap £2. 17. 0



35 mm.

Paxette

f/2.8 Pointar Anastig-
mat colour-corrected
lens; Prontor S.V.S.

8-speed shutter, syn-
chronised for flash, and with delayed action release for
self portraiture. Focusing from 3½ft. to infinity. Rapid
lever wind, coupled to shutter and film transport as a
safety device against double or blank exposures. Leather-
covered body, satin-chromed finish.

PAXETTE I, with built-in
exposure meter

£23.0.0

PAXETTE Im, with built-
in split-image rangefinder

£26.0.0

PAXETTE II as above, with
interchangeable lenses **£23. 18. 6**

PAXETTE IIm as above, with
interchangeable lenses **£34. 10. 0**

English Hide Ever-ready case £2. 11. 4

**NEVILLE BROWN &
77 NEWMAN STREET · LONDON · W.1**

CO. LIMITED

Tel: LAngham 7161 (10 lines)



These famous products
are being advertised in
the **DAILY MIRROR**
week beginning May 7th

- 12,789,000 readers of the Daily Mirror will see these advertisements.
- THAT'S ONE IN THREE OF ALL SHOPPERS IN YOUR AREA.

Tell your other suppliers, the support you want is brand advertising in the Daily Mirror.

greatest daily sale on earth **DAILY MIRROR**

FOR EXTRA BUSINESS, EXTRA PROFITS

Display these brands on your counters, in your windows. Be sure customers see that you are their nearest stockist.



moves goods nationally, regionally, **LOCALLY**



THE FILMS THEY COME BACK FOR

Now six-strong, the Agfa film range ensures that every type of customer is catered for—which means more customers coming back for more Agfa films.

Agfa ISOPAN ULTRA

Extra fast (37° Scheiner) pan film for available light photography and contrejour shots. Features 'Contour Sharpness' for pin-point sharpness.

Agfa ISOPAN ISS

Fast wide-latitude pan film (33° Scheiner); outstanding tone gradation too.

Agfa ISOPAN F

Fine grain medium speed film (28° Scheiner) featuring considerable latitude.

Agfa ISOCHROM

Fine grain orthochromatic film (30° Scheiner). Extremely high general sensitivity with great exposure latitude.

Agfacolor NEGATIVE

Colour film for colour-rich prints and enlargements; monochrome prints and enlargements too, as well as transparencies may be had from this versatile colour film.

Agfacolor REVERSAL

Colour film for sparkling colour transparencies. Fast (25° Scheiner) emulsion rating gives greater scope to transparency enthusiasts.

Also available

Agfacolor REVERSAL CINE Film

For superb natural-colour movies. Available in: Movex cassettes 8mm single run. Double 8mm (25 ft.) spools. 50 ft. and 100 ft. 16 mm standard spools. Siemens cassettes.

Agfa films are available in all popular roll film sizes, and with the exception of Agfa Isochrom they are available in 35mm too.

Pictures that please begin on  **FILMS**



SPECIAL PARCEL

12 BOXES OF SUPPOSITORIES SENT

POST FREE!

to your address and charged through YOUR USUAL WHOLESALER

E.G. 6 Boxes of Suppos. Bism. Subgall. 6 Boxes of Suppos. Bism. Subgall. Co.

Manufactured and Packed in the Laboratories of:

RICHARD DANIEL & SON LTD.

MANSFIELD ROAD, DERBY, Tel. 48266 (4 lines) and at GROSVENOR STREET, ASHTON-U-LYNE, Tel. 2816 (3 lines).

Watch your sales of Wright's Calcinate Tablets rise!

Does your child seem UNDERNOURISHED and lacking in energy?

Are you worried because your child is not gaining sufficient weight and doesn't appear to benefit from the nourishing food you give him? Doctors agree that many children simply cannot get the full food value from what they eat without a supplement. Such children are usually lacking in enthusiasm and energy and find difficulty in concentrating on work or play.

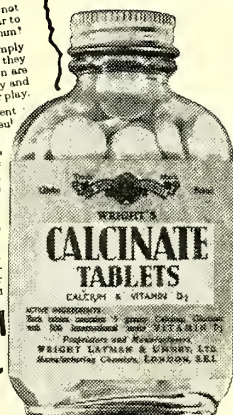
What is wrong is that they are deficient in Vitamin D and calcium in the blood, result in malnutrition and general debility.

To make good this loss, give your child a course of WRIGHT'S CALCINATE TABLETS. Each tablet contains 5 grains of calcium and 500 international units of Vitamin D.

In ten to fourteen days you will beg the difference... extra weight, enthusiasm and energy in work & play. You'll be delighted with the change.

Children love WRIGHT'S CALCINATE. They can be sucked and enjoyed - sweets. Buy a bottle from your chemist. The 2/7 size contains a THREE WEEKS' course.

WRIGHT'S CALCINATE TABLETS



Regular national advertising for Wright's Calcinate Tablets will commence in May in the DAILY MIRROR with its readership of over 10 MILLION.

Make certain your stocks are sufficient to meet the demand and see what profits even a small display can bring!

NOW is the time to display

WRIGHT'S CALCINATE TABLETS

1 dozen 18/- per dozen.
3 dozen 17/9 per dozen.
No Purchase Tax
Retail 2/7d. per bottle of 60 tablets.

From all Wholesalers or:

Wright, Layman & Umney, Ltd.,
Southwark, London, S.E.1



Now to be
nationally advertised!

in all important
national newspapers
and
sports journals
with a total
circulation of
over



51,000,000

telling your customers to help themselves
to energy with Dextrosol Glucose Tablets

for extra business—

In packets of 16 tablets 10½d.
and 8 tablets 6d.

Also DEXTROSOL powdered glucose
in 1lb. and ½lb. packets—2/9d. and 1/6d.



extra profit →

**DISPLAY
DEXTROSOL
GLUCOSE
TABLETS**

Now!



To introduce the *new* Sebbix sachet every 6-dozen sachets ordered will be invoiced as 5-dozen only



** Bonus Offer closes 12th May!*

Take profitable advantage of the
new **NATIONAL ADVERTISING** reaching
42 million people every month.

Sachets

Retail—9d. (inc. P.T.)
Trade—5/2d. a dozen

Bottles

Retail—3/3d. (inc. P.T.)
Trade—23/- a dozen



Obtainable from: GENATOSAN LIMITED, LOUGHBOROUGH, LEICESTER  (or your usual wholesaler)

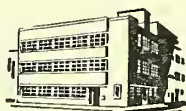
Let FASSETTS

'mind your own business'

in SOUTH AFRICA

MANUFACTURE

Complete manufacturing and packing service whilst maintaining rigid confidence as to formulae, etc.



DISTRIBUTION

Complete organisation covering the entire Union and extending into Rhodesia, South West Africa, etc., with established Branches in Durban, Johannesburg, Cape Town, Port Elizabeth and Bulawayo.



SALES

An alert, fully staffed Sales Organisation is an integral part of the Fassett service. Individual transport and the necessary specific training for each Product and Preparation is provided.



PUBLICITY

Our service is only available for products which are supported by adequate advertising. This we can arrange in the area if required.



The vast Native and European markets throughout South Africa can be reached at once and without Customs difficulties or Staff problems.

Our business is to offer facilities to manufacture and distribute Pharmaceutical, Toilet and other preparations. We have a large modern factory in Durban in which we manufacture proprietary products and toilet preparations for their respective proprietors. We also maintain a sales and distribution organisation covering the whole of South Africa and Rhodesia, operated through strategically placed depots. This manufacturing-selling-distributing service is complete, is operated with complete integrity—and costs the proprietors of the respective articles infinitely less than if they were to enter this market with their own premises, organisation and staff.



FASSETT & JOHNSON LIMITED
 Manufacturers and Distributors of Proprietary Products and Toilet Preparations
 86, CLERKENWELL ROAD, LONDON, E.C.1
 ADDRESSES OF SOUTH AFRICAN FACTORY, DEPOTS, ETC.
 72/80 Smith Street ● 15 Bree Street, ● 72 Polly Street
 Durban. Cape Town. Johannesburg
 Hippo Buildings, ● Fortwell House,
 Horton Street, Fort Street,
 Port Elizabeth. Bulawayo.

OUR OWN FACTORY

NATURAL COLD-PRESSED ALMOND OIL



Almond Oil Presses at Wharf Road.

For stability and low acidity there's nothing to touch the natural expressed oils, prepared without chemical treatment, water treatment or heat treatment, in our Wharf Road Works.

This is one of our specialities. We can quote you for genuine Almond or, at a slightly lower rate, for Persic oil expressed from Peach and Apricot Kernels.

NO CHEMICAL TREATMENT
NO WATER TREATMENT
NO HEAT TREATMENT

*Unequalled
Quality*

StaffordAllenS



*She may only be wanting
a mixing bowl . . .*

There's a big market for houseware made from **'ALKATHENE'**

THE I.C.I. BRAND OF POLYTHENE

YOU CAN SELL any amount of household goods made from 'Alkathene'. Kitchen and bathroom ware made in 'Alkathene' sells itself. 'Alkathene' is THE original polythene discovered by I.C.I. It is so light, so bright and colourful, and virtually unbreakable. 'Alkathene' never rusts or dents or chips — never chips valuable china or glass either! It has a beautiful, smooth hygienic surface, very easy to clean. It lasts for ages and will stand up to rough handling.

'Alkathene' is receiving a lot of publicity in the National Press. The full weight of all this advertising is behind *your* sales drive. In addition, striking and attractive display material can be had for the asking, from your normal suppliers. Organize your own 'Alkathene' Week! With special window and interior displays. That is the way to gain customers from the 'Alkathene' national campaign. You'll find there is a profitable future in 'Alkathene'!

'ALKATHENE' is the registered trade mark for the polythene made by I.C.I.

..... **BUT LOOK WHAT YOU CAN SELL HER!**



LOOK FOR THIS LABEL

Articles bearing this label are made from 'Alkathene', the sign of the highest quality.

Sell all these in 'ALKATHENE'

THERE IS A WIDE RANGE, in a rainbow of attractive, modern colours. Everything to lighten the housewife's work in the home!

And everything is being done to lighten *your* work too! All advertisements for 'Alkathene' houseware will display the label and panel shown on the left; manufacturers are being encouraged to fix the labels on their goods and feature them on their display material. The housewife will recognise the label as soon as she sees it in your window or on your counter. Make no mistake, she'll "ask for 'Alkathene'!"

IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1



AH.2/T



Taking delivery of vegetable drugs or galenicals? Then how wise you will be to make *doubly* sure that you are receiving a Ransom product. Remember, too, that many Ransom drugs are grown on the Company's own farms at St. Ives, Huntingdon — where well-directed research contributes much to Ransom leadership in drugs and galenicals.

... make sure it's a Ransom label

EXTRACTS • TINCTURES • ESSENTIAL OILS • RESINS • CHLOROPHYLL

Actual Growers of

BELLADONNA • HENBANE • FOXGLOVE • PEPPERMINT • LAVENDER

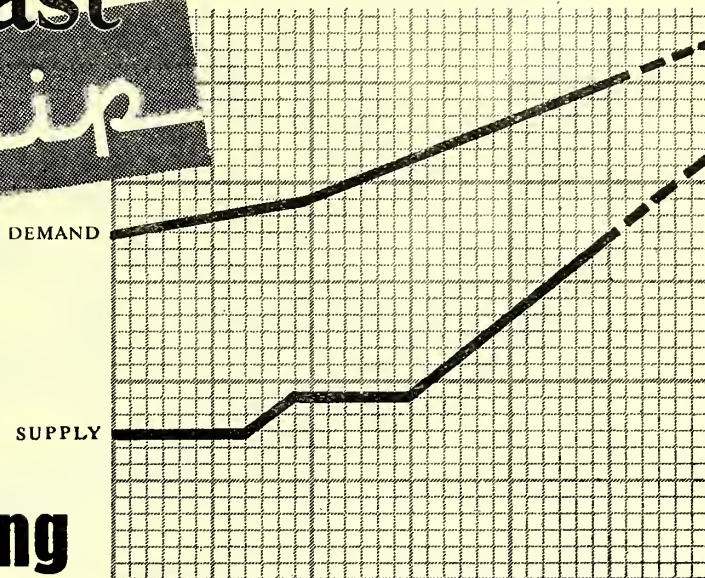
Established 1846



WILLIAM RANSOM & SON LTD.
Hitchin Hertfordshire England

Elastoplast

Airstrip



The Gap is closing

... and the end of "RATIONING" is in sight!

There is only one really waterproof dressing that allows the wound to breathe . . . and its name is—ELASTOPLAST AIRSTRIP!

That the public consider this to be the ideal first-aid dressing is clearly evident from the fact that within a few weeks of its introduction, demand had already outstripped supply. Yes—the success of ELASTOPLAST AIRSTRIP was greater than even we thought it would be!

Immediate steps were taken to increase production and to share out all available supplies equally among chemists on the basis of 2 dozen of the 1/- pack and 1 dozen of the 2/- pack per shop.

Production has now been increased still further and we hope that we shall soon be able to advise you that ELASTOPLAST AIRSTRIP dressings will be freely available and that we can meet all demands.

In conclusion, we would ask you to bear with us a little longer and to continue placing your confidence in this overwhelmingly successful product—ELASTOPLAST AIRSTRIP—the only waterproof dressing that is micro-porous and allows the wound to breathe, thus eliminating maceration.

SMITH & NEPHEW LTD., WELWYN GARDEN CITY, HERTS



LIFEGUARD DISINFECTANT

Announces

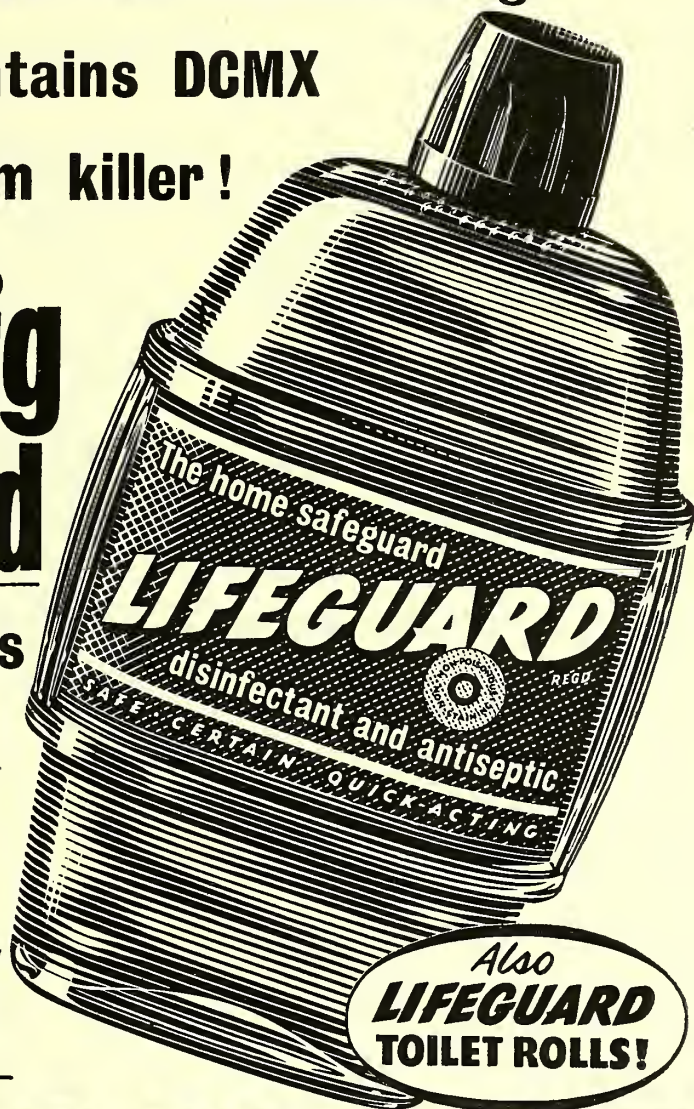
**NEW DISINFECTANT
DISCOVERY - BACKED
BY THE BIGGEST
ADVERTISING
CAMPAIGN IN
DISINFECTANT HISTORY!**

Giant Spaces in the National
and Provincial Press now announcing
that Lifeguard contains DCMX
—new wonder germ killer!

Creating Big
New Demand

from your customers

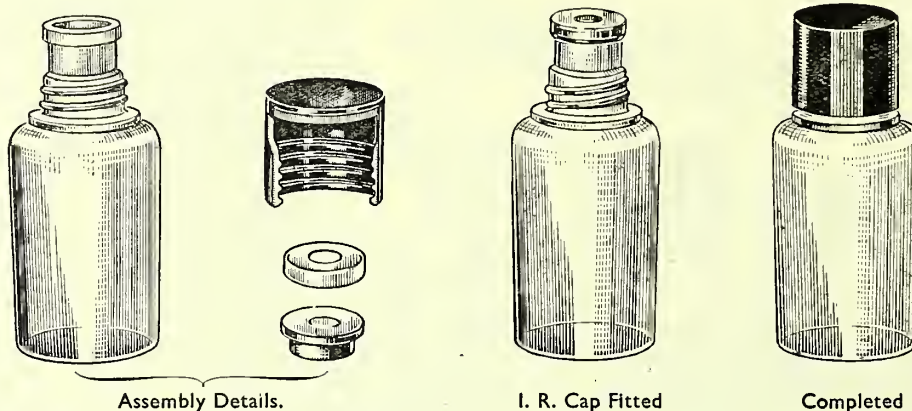
Cash in—
Display



LIFEGUARD
DISINFECTANT

The "Clinbritic" Mark II

Multi-Dose Injection Bottle



After very many years of useful service, the original "Clinbritic" Vaccine Bottle (Patent No. 492200) has been improved by the incorporation of a **SECURITY SEAL**. All the main features have been retained — Alkaline free bottle (clear or amber), rubber cap, and bakelite cap with special faced wads. The "skirt" of the rubber cap is eliminated and in its place the rubber plug is held in position by an aluminium sealing ring, applied by means of a simple closing tool.

The original "Clinbritic" Vaccine Bottle which will continue to be available was featured in the Medical Research Council's War Memorandum No. 15 as follows:—

"A very satisfactory pattern of vaccine bottle, which is rapidly coming into general use, is that described by Berry (1938). The skirted rubber vaccine cap, which closes the bottle, is protected by an outer Bakelite screw cap containing an absorbent pad which can be impregnated with a 10 per cent. solution of chloroxylenol B.P. Provided that the pad is kept well wetted with the solution of chloroxylenol, the skirted rubber cap beneath it will remain always sterile, and will require no further treatment before puncturing."

FULL DETAILS AND SAMPLES FROM:—

BRITTON MALCOLM & CO. LTD

38 · SOUTHWARK BRIDGE **BM** ROAD · LONDON · S · E · 1

WAT 4874/6

D E P E N D A B L E

THE NAME BEHIND THE CHEMIST



FOR OVER A CENTURY AND A HALF

TWO OUTSTANDING PASTILLES IN DELIGHTFUL PRESENTATIONS

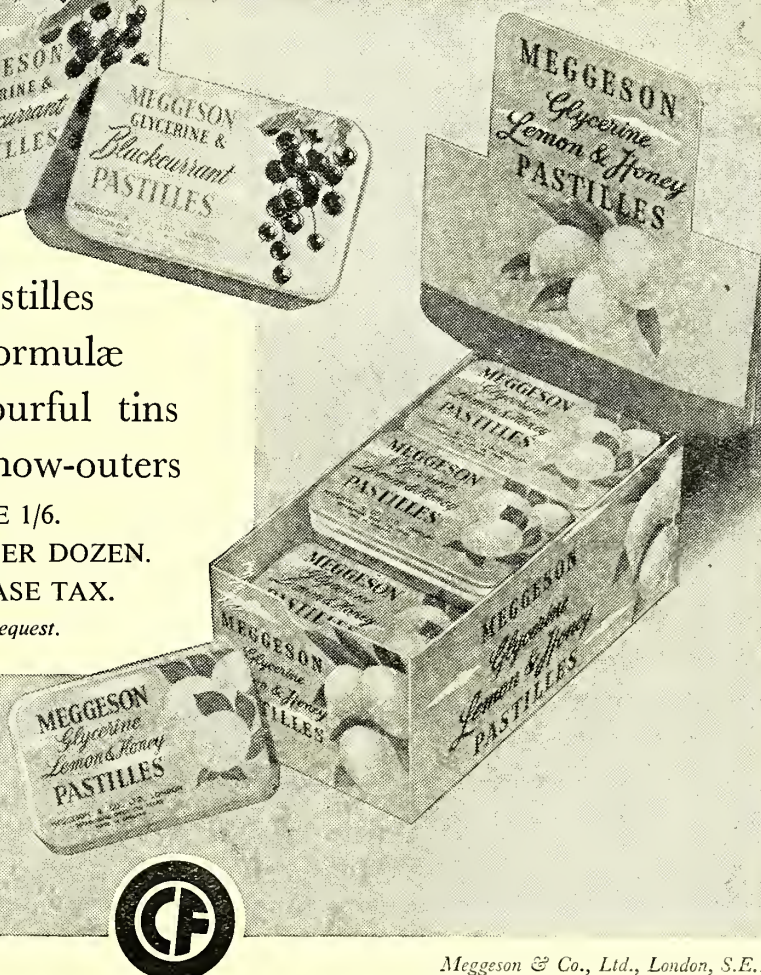
Perfect pastilles
Improved formulæ
Distinctive colourful tins
Eye-catching show-outers

RETAIL PRICE 1/6.

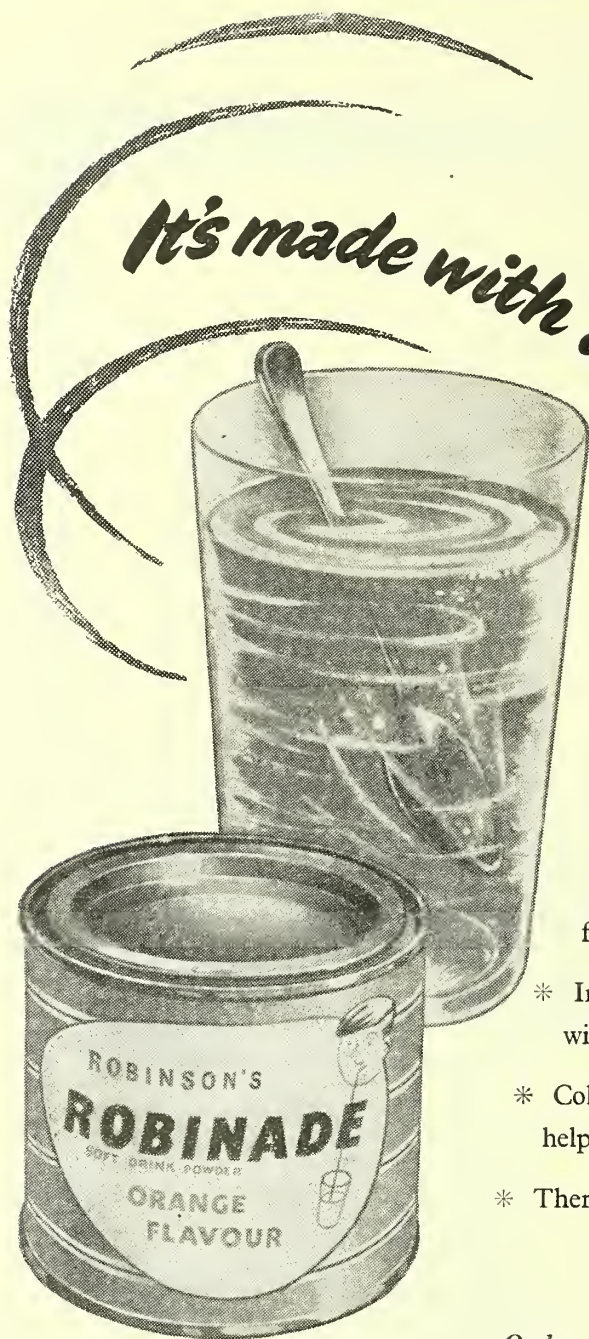
TRADE PRICE: 12/- PER DOZEN.

FREE OF PURCHASE TAX.

Quantity terms on request.

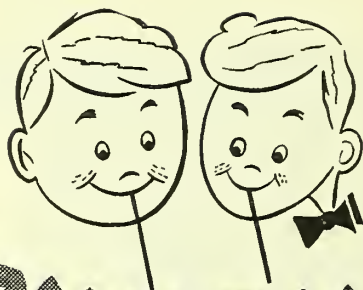


Meggeson & Co., Ltd., London, S.E.16



It's made with a

SWISH-
and it SELLS with a
SWING!



Last year's sales proved that Robinade is a sparkling success — and no wonder, with a cool 14 glassfuls of fruit-flavoured refreshment from each 1/- tin.

- * In 1956 film, magazine and newspaper advertising will continue.
- * Colourful display containers will be available to help sales.
- * There will be five popular flavours :
ORANGE · LEMON · LIME
PINEAPPLE · RASPBERRY

Order NOW, in assorted or straight flavours, just as you wish.

ROBINSON'S
QUICK-MIX **ROBINADE**
—a refreshing drink in powder form



MADE BY ROBINSON'S OF BARLEY WATER FAME · CARROW WORKS, NORWICH



*If personal service and faultless
workmanship are required*

U·M·P

is the answer

*Have you contacted
U·M·P PLASTICS for
your requirements in
MOULDED PLASTIC CONTAINERS?*



*For Tubes
and Plastics*

WHY NOT TRY THE
U·M·P
WADLESS CLOSURE?

- NO LOOSE CAPS
AFTER FILLING
- A PERFECT CLOSURE

Tru-gel tubes are supplied with
our "Weltex" seal and "Decora"
shoulder.

UNIVERSAL METAL PRODUCTS LTD.

SALFORD 6 LANCs.

Telephone: PENDLETON 4444

LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1. TEL. TERMINUS 2073

Get ready for the WHITE LILAC rush!



WHITE LILAC is the latest santowel of the famous Southalls range. This pure cellulose, soluble santowel is guaranteed a top-seller because "WHITE LILAC" is made to a design specifically required by every woman. Every Wholesaler and Retailer is now given the opportunity of cashing-in on the intensive summer promotion campaign which will launch "WHITE LILAC" on a national scale. Sales-compelling advertisements will appear in a large number of national dailies and popular women's magazines which will be read by **25,000,000** women from May onwards. Attractive Dispenser units and show material are being placed by Southalls Representatives or can be obtained on request.

* * *

RETAIL PRICES

Standard (doz.) 1/11d.	Size 1 (doz.) 2/2d.
Size 2 (doz.) 2/5d.	Standard (½ doz.) 1/-

* * *

Order NOW for prompt delivery —
through your usual wholesaler.

WHITE LILAC

SOLUBLE SANTOWELS by Southalls

Southalls (Birmingham) Ltd., Charford Mills, Birmingham 8



Why are so many people drinking

Rose's

DIABETIC ORANGE SQUASH?

Rose's originally produced their Diabetic Orange Squash expressly for diabetics, but the demand for it has gone far beyond this particular field. Sales are climbing rapidly, because people are fast discovering that Rose's Diabetic Orange Squash is free from added sugar, and is a *delicious aid to healthy slimness.*

Ensure that your stocks are sufficient to meet the growing demand for Rose's DIABETIC fruit drinks—now backed by an interesting new advertising campaign in the Diabetic Journal and other medical publications.

ROSE'S ALSO PRODUCE LEMON SQUASH AND LIME JUICE AS WELL AS SUGAR-FREE MARMALADE IN THEIR DIABETIC RANGE



FOR HER—FOR YOU

Tweezers with new talking points! Women everywhere have given an enthusiastic welcome to the 'spring action' GREBA which grips the minutest hairs without effort or tension and makes eyebrow plucking simple and sure. Sales steadily soar. Order supplies of these British-made patented Stainless Steel Tweezers from your wholesaler now.

TRADE PRICE 18/- DOZ. (Plus P.T.)



ARCFIELD OPTICAL MANUFACTURING CO. LTD.
(Light Engineering Section)
53 TOTTENHAM COURT ROAD, LONDON, W.1.



Start the Season RIGHT

with the

GNOME-METER Rangefinder

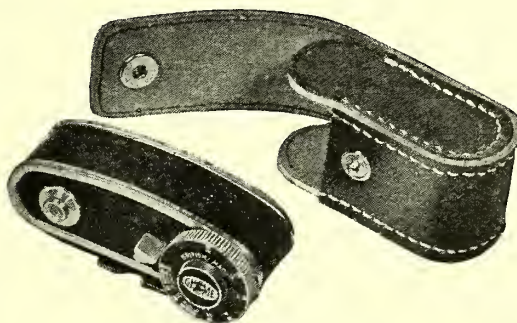
This sturdy, precision built, Rangefinder has a shoe fitting to suit most cameras.

Exceptionally bright super-imposed image with adjustable colour screen.

Fully adjustable from the outside; conveniently placed, clearly calibrated wheel.

Scaled from 2 ft. to infinity. Available in feet or metres.

Write to-day for details of the Gnome range of quick selling photographic equipment.



Price 33/1d.

Leather Case .. 7/-

GNOME PHOTOGRAPHIC PRODUCTS LTD., 354 CAERPHILLY ROAD, CARDIFF

Millions of KAY'S flycatchers are sold each Summer

EXPERIENCE proves there is no better way of catching flies

Proved over the years, more and more people are returning to the foolproof method of flycatching.

- ★ Shiny and attractive to flies, Kay's Flycatchers capture them by the hundred.
- ★ Hygienic—traps them and holds them fast for good.
- ★ Reinforced with D.D.T.
- ★ Guaranteed to remain fresh in store.
- ★ Supplied in eye-catching display boxes.

There's plenty of profit for YOU

Honeypot and Viper
FLYCATCHERS

Regd.

Order NOW from your usual wholesale supplier or direct from

KAY BROTHERS LIMITED · REDDISH · STOCKPORT

Selling price to public 3d. each
TO RETAILERS

HONEYPOT

Under 3 gross ... 27/- per gross
3 gross and over ... 24/- per gross

VIPER

Under 3 gross ... 28/- per gross
3 gross and over ... 25/- per gross

and . . . a **HARD SELLING**
ADVERTISING CAMPAIGN
throughout the **NATIONAL**
PRESS will create huge Public
Demand.

so . . . Stock up NOW and ensure that this Summer is a record Sales Success with this rapid turn-over line.

T14

FOLIC ACID B.P.
THEOBROMINE B.P.C.
SULPHA DRUGS
ICHTHAMMOL B.P.
MERCURY METAL

FERRO METAL & CHEMICAL CORP. LTD.
VICTORIA HOUSE,
VERNON PLACE, SOUTHAMPTON ROW, LONDON, W.C.1
Telephone: CHAncery 6961 (3 lines)

And at
NEW YORK, STOCKHOLM, COLOGNE

THE WORLD'S GREATEST BOOKSHOP

FOYLES
** FOR BOOKS **

NEW, SECONDHAND AND RARE

BOOKS

Foyles have Departments for Gramophone Records
Stationery, Handicraft Tools and Materials, Music
Magazine Subscriptions, Foreign Stamps.

119-125 CHARING CROSS ROAD, LONDON, W.C.2

Gerrard 5660 (20 lines) ★ Open 9-6 (Thur. 9-7)

Two minutes from Tottenham Court Road Station

GALLIC ACID PYROGALLIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX

DISPLAY AND SELL

THE **SALTER** "MAYFAIR"

PERSONAL WEIGHER

Today, with more and more people becoming interested in dieting and slimming for both health and beauty reasons, it pays to stock, display and sell the "Mayfair" personal machine. Check these advantages and you will see why the "Mayfair" is one of today's best sellers.

- Priced at only 66/6d. plus Purchase Tax.
- Rubber-encased platform gives a non-slip weighing surface, with no dust or water trapping crevices. It also prevents damage to skirting boards.
- Streamlined design for easy cleaning.
- Graduated 20 stone x 1 lb.
- Strong, compact and easily portable.
- It is made in the Midlands of England, by Salter—makers of weighing machines for nearly 200 years.
- A full-colour showcard is available free on request for point-of-sale display.



ONLY
66/6
PLUS P.T.

NATIONALLY ADVERTISED IN

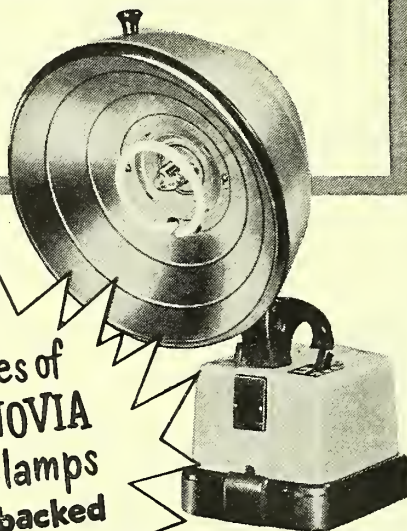
*John Bull, Woman
and Beauty, Vanity Fair,
Britannia and Eve,
Everywoman, Good House-
keeping, Ideal Home,
Reader's Digest.*

★ For those who prefer the full view
dial-type machine, the popular
"Grosvenor" and "Windsor"
models are still in production.

Geo. Salter & Co. Ltd., West Bromwich.

*Because they
can't afford
to be ill...*

thousands of people will be buying Hanovia prescription lamps this Winter. Hanovia lamps are widely used in hospitals and recommended by doctors. They are sold free of purchase tax on medical certificate and are made by the world's leading specialists in ultra-violet equipment.



*Sales of
HANOVIA
Sun-lamps
are backed
by*

- ★ NATIONAL PRESS ADVERTISING
- ★ WEEKLY RADIO LUXEMBOURG PROGRAMMES
- ★ GOOD DEALER SERVICE *including sales aids and window displays.*
- ★ GENEROUS DEALER DISCOUNTS

Order your stocks NOW

Write to:

Hanovia SLOUGH · BUCKS

Specialists in ultra-violet ray equipment for all applications.

TGA 975

**Do not
disappoint
your customers
—stock and display**

Askit

Powders and tablets for the safe and
speedy relief of headaches, colds, chills,
rheumatic and nerve pains.

EX ALL LEADING WHOLESALE HOUSES

BEST-SELLERS
the ALL year round!



"Sun-tang"

Sun-tang—made from whole oranges, sugar and glucose—contains Vitamin C, essential to good health.



'NIAGARA'
Blackcurrant Syrup

Niagara—made from Blackcurrant juice and sugar—rich in Vitamin C—the perfect drink or young and old alike.

Increased advertising means more customers for you—more customers asking for both these delicious, health-giving drinks. Meet the extra demand by ordering ample stocks NOW and make sure of year-round profits. Eye-catching display material, certain to boost sales, can be obtained from your usual wholesaler or direct from

BARNETT & FOSTER LTD.

QUEENSBIDGE ROAD, LONDON, E.8. Tel.: CLissold 7132

HERE'S A BIG SCHEME TO BRING YOU EXTRA SALES

— ON ALL FLASH EQUIPMENT

These four shots are taken from the new series of lively "Photoflux" advertisements which will be appearing in *all* the principal amateur photographic magazines. Each advertisement will feature a photograph and explain the way 'flash' was used in taking it.

These advertisements—fascinating and informative—will sell flash photography as it has never been sold before! By night or by day, with colour or with black and white, in summer or in winter, there is always a use for 'flash'—that's the story that will be told and that's the story that will fascinate thousands of photographers.

You stand to gain in a big way from this publicity. Not only from increased sales of "Photoflux" flashbulbs, but from extra sales of *all* kinds of flash equipment—as well as increased D & P trade. So make sure your window and counter shows quite clearly that you stock "Photoflux" flashbulbs—especially the new PF 1 Capless bulb.



Blue Safety Spot: To ensure dependability and consistent results, every "Photoflux" flashbulb incorporates the blue spot, invented and developed by Philips.



PHILIPS

"PHOTOFLUX" FLASHBULBS

(Made in Holland)

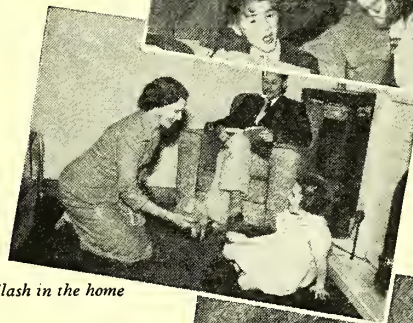
for "Perfection in a Flash"



Flash and the sun



Flash and colour



Flash in the home

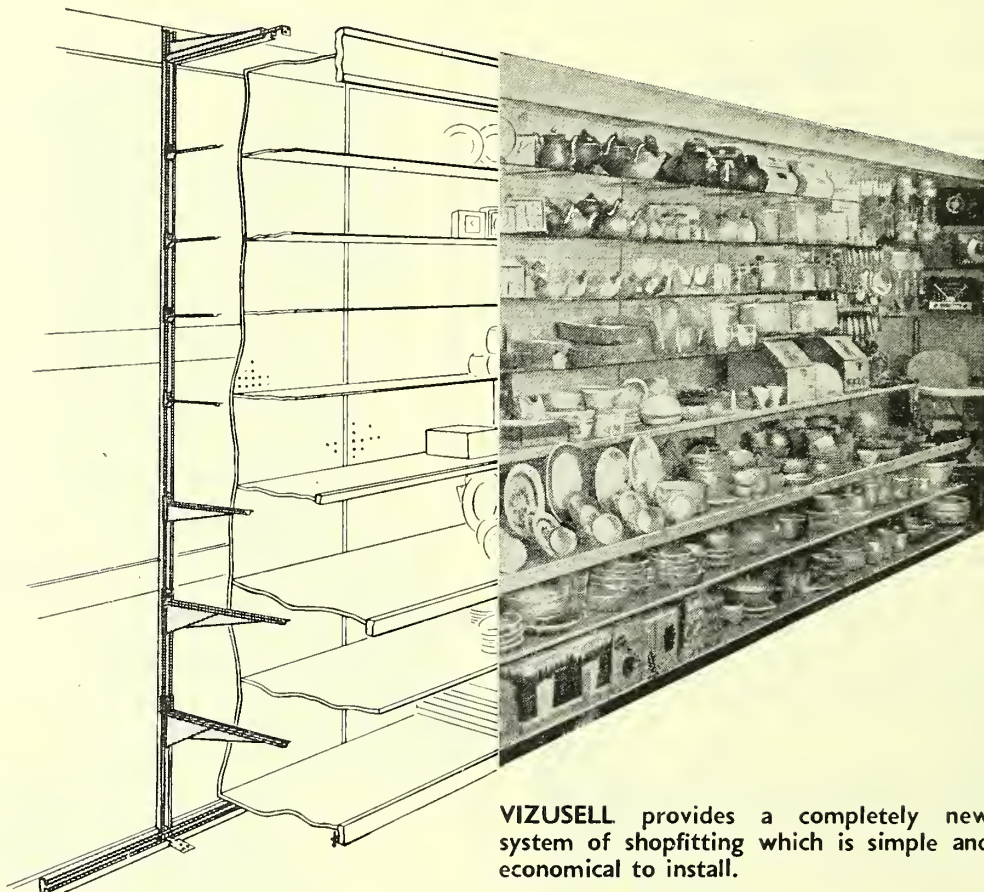


Flash at play

PHILIPS ELECTRICAL LTD., LIGHTING DIVISION, CENTURY HOUSE, SHAFTESBURY AVENUE, LONDON, W.C.2
"PHOTOLITA" PHOTOFLOOD LAMPS • DARKROOM SAFELIGHT BULBS • PHOTOCRESCENTA ENLARGER LAMPS AND PROJECTOR LAMPS (PP803)

Vizusell

*shows more—sells
more—at less cost*



VIZUSELL provides a completely new system of shopfitting which is simple and economical to install.

WHATEVER THE SIZE
OF YOUR BUSINESS
—VIZUSELL WILL
ENLARGE IT.

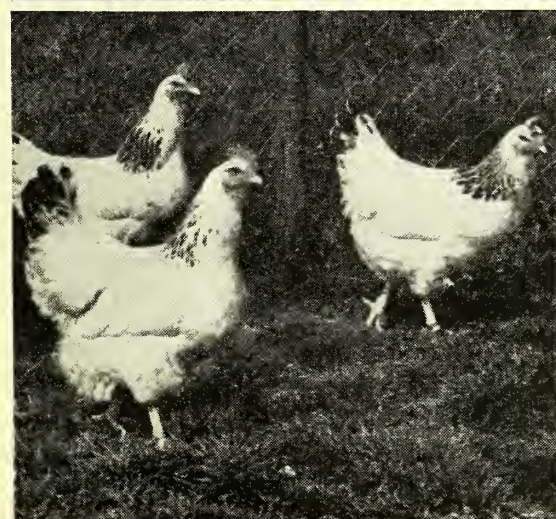
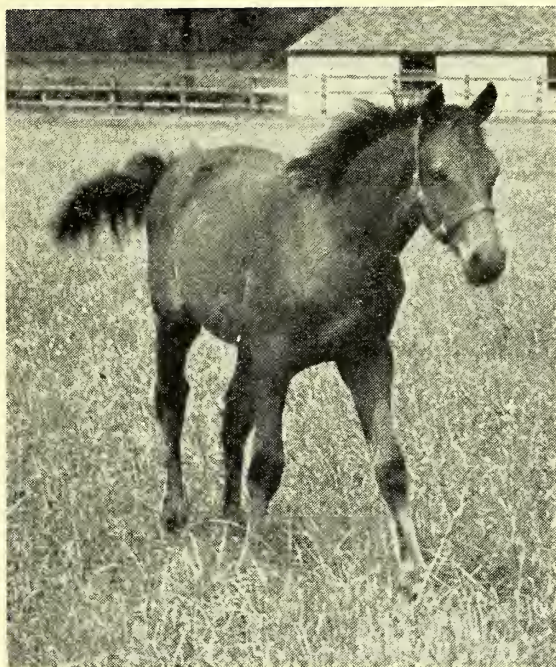
Write or Telephone
for full information
— or contact your
local shopfitter.

- ★ Low in cost
- ★ Displays more goods
- ★ Smart in appearance
- ★ Suitable for all selling systems
- ★ Fully exploits all available space
- ★ Adaptable to all classes of merchandise
- ★ Quickly rearranged to suit varying sales requirements
- ★ Attachments precision-fixed in any desired position by the twist of a screwdriver

VERSATILE FITTINGS (W.H.S.) LTD

55 FETTER LANE, LONDON, E.C.4. Phone: Fleet Street 1887

A SUBSIDIARY OF W. H. SMITH & SON LIMITED



The ideal worm powder for HORSES, PIGS and POULTRY

'Pipricide', a preparation of piperazine citrate, is the ideal roundworm remedy for horses, pigs and poultry. It is effective also against small strongyles in horses and nodular worms in pigs. In the recommended dosage, it

- is non-toxic to the host
- immobilises the worms, thereby facilitating their elimination
- can be administered to pigs in wet, dry or swill-feeds, or as a drench
- can be mixed with mash or added to drinking water for poultry
- is conveniently administered to horses in a bran mash
- may be given to horses, pigs or birds of any age or weight

'Pipricide', which has been the subject of extensive investigations at The Wellcome Research Laboratories and The Wellcome Veterinary Research Station, is issued in containers of 1 oz. and 8 oz.

Order supplies now to meet the certain demand from your farming customers.

'PIPRICIDE'
BRAND
WORM POWDER



BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.)

LONDON

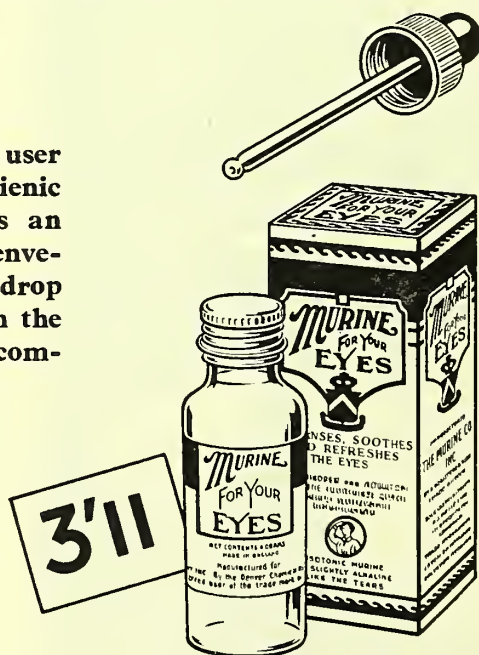
THE EYES OF THE WORLD!

MURINE

is used by more people
throughout the world
than any other
EYE PREPARATION

Only Murine provides every user with a personal, completely hygienic dropper. Every pack contains an individual dropper in a sealed envelope. Once administered, every drop of Murine blends soothingly with the natural fluids, to bring instant, comforting relief to tired eyes.

ORDER NOW FROM
YOUR WHOLESALER



Sole Distributors in the United Kingdom, A. J. WHITE, LIMITED, Coldharbour Lane, London, S.E.5

WELLCOME INSTITUTE
LIBRARY

Oil. WelMOmec

Oil.

Oil.

E. Illingworth & Co. (Bradford) Ltd.

Cotton Wools

B.P.C. QUALITY COTTON WOOLS
HOSPITAL QUALITY COTTON WOOL
(Drug Tariff)

Sterilised and Unsterilised in all weights, for
Home and Export.

Quantities labelled with
your own labels.

*COTTON WOOL DISPENSER
(Pleated filling. Attractive Pack)

BOTTLE NECK WOOL, FILTER PADS
WOOL AND COTTON TISSUE B.P.C. Quality
RESPIRATOR REFILLS
KNITTED BANDAGES

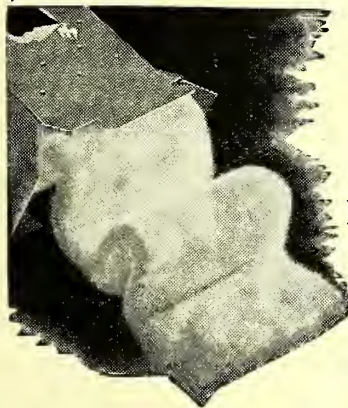
Packing Materials

NEEDLELOOM FELTS

for thermal, sound and vibration insulation
and protection.

Cotton Wools

Bleached and Unbleached Rolls from
2 in. to 40 in. wide, weights 3 oz. per
sq. yd. upwards.



**Only as much as is
needed is pulled out
at a time!*

Illmond Cotton Wool Dispenser Pack

Package has tuck-in
ends and can be re-
sealed. Hygiene en-
sured. Elegant design
of pack makes it
perfect for a lady's
dressing table.

E. ILLINGWORTH & CO. (BRADFORD) LTD.

Shelf Mills, Shelf, Halifax

Tel: Low Moor 400/4

Grams: "Illmond" Bradford



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 165

May 5, 1956

No. 3976

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EDITORIAL AND PUBLISHING OFFICES

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street.

Phone: Midland 2921

GLASGOW: 35 Kingslynn Drive, LEEDS, 16: 32 Wynford Rise,
King's Park, S.2. West Park. Phone: Leeds 67,8438

Phone: Langside 2813

ANNUAL SUBSCRIPTION, which includes The Chemist
and Druggist Diary and Year Book, £2. Single copies
one shilling each.

Why is it that MORE & MORE HOUSEWIVES are changing to— **WRIGHT'S** Coal Tar Soap ?



Toilet and Bath sizes available

Women today are getting wiser about soap. They look for more than an exotic perfume — they look, in fact, for Quality and a name that has stood the test of time. Every woman knows she can trust Wright's Coal Tar Soap . . . and Wright's new public advertising is bringing home to her the fact that the soap extensively used by Doctors and Nurses is the soap for her and hers. You can't go wrong in recommending Wright's Coal Tar Soap to all your customers.

Link your counter with Wright's
National and Local Advertising this week !

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AWARD**

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The CHEMIST AND DRUGGIST

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No. 3976

Examination too Exacting?

PRIVY COUNCIL VISITOR'S COMMENT

IN his report to the Privy Council on the examinations held by the Scottish board of examiners of the Pharmaceutical Society during 1955, Professor D. M. Dunlop (professor of therapeutics and clinical medicine, University of Edinburgh) comments that the Pharmaceutical Chemist Qualifying examination is excessively onerous.

He says that the examination, consisting of a paper in pharmacognosy, two in pharmaceutical chemistry, two in pharmaceuticals, one in physiology and pharmacology, and one in forensic pharmacy, plus two three-hour practical examinations in pharmaceuticals, a practical examination in pharmaceutical chemistry lasting from 10 a.m. until 4 p.m., a practical examination in physiology, and one in pharmacognosy, is not only a formidable test of knowledge of most varied nature, but is also something of a physical trial of strength — perhaps even more formidable than the final examination for medical students. Professor Dunlop suggests that it would be better if the Qualifying examination could be taken in two separate parts. Were pharmacognosy and physiology, and pharmacology, which are to some extent academic subjects, passed at one time, and pharmaceutical chemistry, pharmaceuticals and forensic pharmacy, which are more vocational and non-academic, passed at another, the burden of the examination would be considerably lightened. Professor Dunlop also thinks that some of the difficulty which candidates experience in physiology is due to ignorance of human anatomy and urges the inclusion of simple instruction in that subject in the curriculum.

Public Pharmacists

COUNCIL ELECTION CANDIDATES

THE following are candidates for election to the Council of the Guild of Public Pharmacists:—Misses E. P. Button, M. C. Islip, Messrs. D. H. S. Cox, E. W. G. Dilkes, C. R. Dimond, J. Fogg, P. J. Fowler, J. Gilliland, H. S. Grainiger, A. M. Mees, W. Mott, S. Powlson, C. H. Preston Robinson, F. W. Sambridge, and F. J. Whelan. There are two candidates for one vacancy as district member for the Midland district: Messrs. P. Crees and E. J. Fitchett. Other district members are returned unopposed.

Doctors and Drugs

ITEMS FROM B.M.A. REPORT

THE General Medical Services Committee of the British Medical Association

in its report to the annual conference of Local Medical Committee representatives states that the Committee has approved the action of the Ministry of Health in extending the scope of the scheme for testing drugs and appliances to include assays of vitamin preparations and penicillin preparations. The Committee intends to conduct further negotiations on the introduction of stock orders for doctors' immediate prescribing needs. The Committee thinks that the support given to it on that subject by the Guillebaud Committee will strengthen its case. The Committee has accepted the Ministry's view that a chemist should be regarded as complying with his terms of service if, when he receives a prescription ordering an original pack, he supplies the drug which is ordered in whatever container is suitable for the purpose. The Committee is discussing with the Association of British Pharmaceutical Industry

the question of manufacturers discontinuing the practice of including, with packages and cartons of proprietary medicines, literature which cannot easily be removed by the chemist before the patient receives it.

Full Pricing

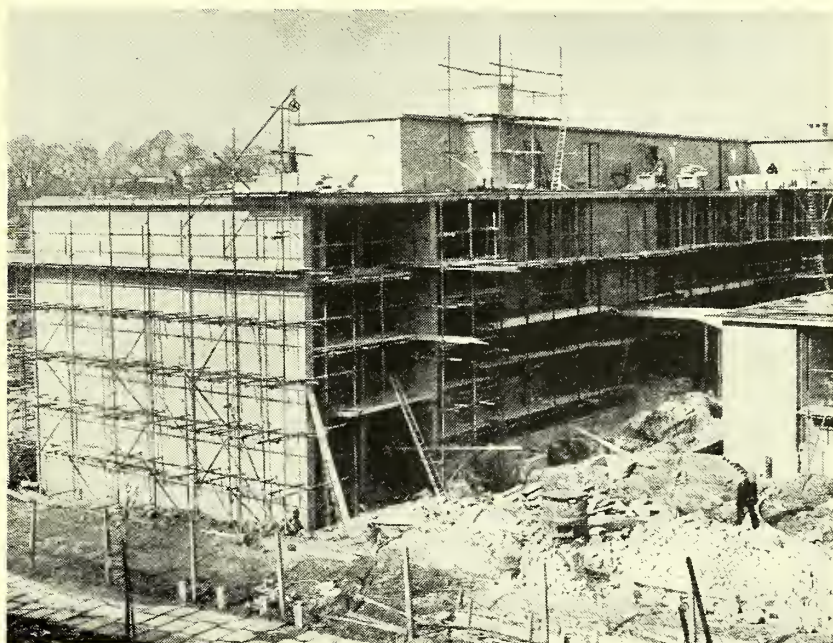
RESTORATION FOR SOME CONTRACTORS

THE Ministry of Health has decided that, during the three months May to July, prescriptions of chemist contractors in certain Executive Council areas shall be fully priced. Chemists affected are being notified. Contractors not covered by those arrangements will continue under the present system of sorting prescriptions into S and A bundles, unless they are among those with relatively small accounts whose prescriptions are priced in full. The Ministry states that the re-allocation of areas to pricing offices has been again delayed and the above arrangement is temporary.

Jubilee Dinner to Agents

CONSULAR REPRESENTATIVES ATTEND

AT a dinner in London on April 24, May & Baker, Ltd., Dagenham, celebrated the fiftieth anniversary of the appointment of their Danish and Norwegian agents, Firma Ringsted & Semler, Copenhagen, and Firma G. O. Johnsen, Oslo, respectively. At the



NEW PRODUCTION UNIT TAKES SHAPE: Work in progress on new biological and bacteriological production and research unit for Glaxo Laboratories, Ltd., Greenford, Middlesex.

dinner, which was attended by consular representatives of the Danish and Norwegian embassies, Mr. C. A. O. Rideal (sales director, May & Baker, Ltd.) presented the agents' directors with silver cigarette boxes to commemorate their long association with the company. Mr. Rideal said that that association had resulted in a very satisfactory volume of exports of chemical products.

Parcel Post Charges

INCREASED FROM JUNE 1

NEW parcel post charges starting on June 1 were announced by Dr. Charles Hill (Postmaster-General) on May 1. The new rates are: Inland, up to 2 lb., 1s. 4d.; 3 lb., 1s. 6d.; 4 lb., 1s. 9d.; 5 lb., 2s.; 6 lb., 2s. 3d.; 7 lb., 2s. 6d.; 8 lb., 2s. 9d.; up to 15 lb., 3s. *To the Irish Republic*, 2 lb., 1s. 4d.; 5 lb., 1s. 10d.; 8 lb., 2s. 7d.; 11 lb., 3s.; 15 lb., 3s. 3d. From the same date the maximum compensation payable for the loss or damage in the post of an inland unregistered parcel is being increased from £3 to £5.

History of Pharmacy

FIRST NEWS LETTER CIRCULATED

THE History of Pharmacy Committee of the Pharmaceutical Society is circulating to Branch correspondents an occasional news letter giving information on its current and future work. The first, issued recently, asks for the correspondents' help in several subjects chosen for study, particularly the history of schools of pharmacy. Prospectuses or group photographs of schools are sought. The news letter also includes a note on the token coinage issued by apothecaries and a brief account, prepared by the present secretary (Mr. W. H. Whyte), of the history of the Colchester Association of Chemists and Druggists. A note on prescription books states that the Committee would be grateful for the loan, particularly, of any kept before 1840.

Royal Society

DELEGATION TO RUSSIA

AMONG members of a Royal Society delegation to Moscow leaving on May 18 for a fortnight, are Dr. H. G. Thornton (foreign secretary of the Royal Society and head of the department of soil microbiology, Rothamsted experimental station); Professor J. H. Gaddum, F.R.S. (professor of pharmacology, University of Edinburgh); Professor J. M. Robertson, F.R.S. (professor of chemistry and head of the chemical laboratories, University of Glasgow); Professor M. Stacey, F.R.S. (professor of chemistry, University of Birmingham); and Dr. D. C. Martin (assistant secretary, Royal Society).

Exports of Glassware

ALL SECTIONS SHOW INCREASE

DURING 1955 exports of the British glass industry at £19.8 millions were £5.9 millions higher than in 1954. A breakdown of the total shows that scientific glassware was valued at £891,511 (against £756,988) and vacuum flasks and jars at £1,865,635 (£1,465,568).

NEWS IN BRIEF

THE Statutory Committee has directed the registrar of the Pharmaceutical Society to restore the name of Mr. George Benson, 28 Shear Bank Road, Blackburn, Lancs, to the Register of Pharmaceutical Chemists, from April 11.

AN agreement on social security between the United Kingdom and New Zealand comes into operation on April 1. From then on people in Great Britain will be able to draw National Insurance benefits by virtue of their residence in New Zealand.

LONDON Executive Council, at its meeting on April 26, decided to recommend the withholding of £26 5s. from the remuneration of a National Health Service doctor who refused to have his surgery inspected by the Council's representatives; the doctor had had £5 deducted from his remuneration for refusing to allow an inspection on a previous occasion.

THE third edition of the Directory of Independent Consultants in Chemistry and Related Subjects has been published by the Royal Institute of Chemistry; the directory, which includes an alphabetical list of independent consulting practices and an alphabetically arranged subject guide, is obtainable from the assistant secretary (scientific), Royal Institute of Chemistry, 30 Russell Square, London, W.C.1.

SPORT

GOLF.—IRISH CHEMISTS' GOLFING SOCIETY at Carlow golf club, recently. Prizes were donated by St. Dalmas (Ireland), Ltd., Coty (England), Ltd., and Allen & Hanburys, Ltd. *Strokes*, 1, A. Walsh (10) 71; 2, R. D. Arnold (13) 72; *Bogey*, 1, D. P. McHugh (7) all square; 2, E. MacManus (15) 1 down; *Best first nine*, J. Quigley (14) 35; *Best second nine*, P. J. Fullam (16) 34.

LIVERPOOL CHEMISTS' GOLFING SOCIETY at Ormskirk golf club on April 25. *Results*: 1, W. A. Melton, 91 (17); 2, S. G. Bourns, 100 (24); 3, K. McIntosh, 89 (13). Prizes were donated by Allen & Hanburys, Ltd., and R. Sumner & Co., Ltd.

LOCAL OFFICERS

PHARMACEUTICAL ASSOCIATIONS

Hull Chemists' Association and Branch.—*Chairman*, Mr. J. Dack; *Senior Vice-chairman*, Mr. F. W. Abba; *Treasurer*, Mr. C. A. Hewitt; *Junior Vice-chairman and Secretary*, Mr. J. J. Small, 3 Alderidge Avenue, Hull.

PHARMACEUTICAL SOCIETY

Edinburgh and South-eastern Scottish Branch.—*Chairman*, Mr. J. B. Grosset; *Vice-chairman*, Mr. C. G. Drummond; *Secretary and Treasurer*, Mr. Eric Knott, 36 Craigleith Road, Edinburgh, 4.

Glasgow and South-western Scottish Branch.—*Chairman*, Mr. W. T. Wilson; *Vice-chairman*, Mr. R. B. Birrell; *Treasurer*, Mr. D. H. O. Gemmell; *Secretary*, Mr. W. C. Macmaster, 308 Crow Road, Glasgow, W.1.

Halifax Branch.—*Chairman*, Mr. S. Thornton; *Treasurer*, Mr. C. E. Lord; *Secretary*, Mr. J. Thornton, 85 Gleanings Avenue, Norton Tower, Halifax.

Hendon and Edware.—*Chairman*, Miss E. Spivack; *Vice-chairman*, Mr. H. Patchett; *Treasurer*, Mr. S. I. Cooper; *Secretary*, Mr. A. T. Thomson, 7 Hatchcroft, Newark Way, Hendon, London, N.W.4.

Portsmouth.—*Chairman*, Mr. W. R. D. Voke; *Vice-chairman*, Mr. R. E. Clark; *Treasurer*, Mr. A. G. Tatford; *Secretary*, Mr. N. L. Banks, 294 London Road, North End, Portsmouth.

IRISH NEWS

Health Services Board

MATERNITY SERVICE PRESCRIPTIONS

THE Northern Ireland General Health Services Board, which met in Belfast on April 25, was told by Mr. W. Birnie (assistant secretary) that all doctors on the Board's list had been circularised about the provision of items ordered on Maternity Medical Service prescriptions. MR. A. W. KERNAHAN (pharmaceutical officer), stated that the Board received an average of six M.M.S. prescriptions per month on which appliances had been ordered. Of those only about one was for a patient not on the prescriber's list. If the patient was on the prescriber's list the Board treated it as an ordinary prescription. MR. H. W. GAMBLE, O.B.E., thought that was an unsatisfactory arrangement because a chemist supplying an appliance to a patient on a prescriber's list was paid, but was not entitled to payment for a subsequent prescription written by another doctor for the same patient. It was difficult for a chemist to refuse to provide appliances if the matter was urgent. On his proposition, seconded by MR. H. G. CAMPBELL, it was agreed that representations should be made to the Ministry of Health and Local Government to allow breast pumps to be supplied under pharmaceutical services on M.M.S. prescriptions. The Board agreed that payment for a Lastonet kneecap and for a two-way stretch elastic kneecap should be made on the basis of the cost of an ordinary kneecap. Payment was disallowed for a prescription for elixir Ferromycin misread by a chemist as Terramycin. It was also agreed that chemists should be informed that tabs. aneurin co. should continue to be dispensed when vitamin B complex tablets were prescribed unless doctors indicated that a proprietary brand was to be dispensed. It was agreed that when a prescription called for elastic stockings, knee length, the Board would pay for below-knee stockings unless the supplier indicated on the prescription that "above knee" had been supplied. The Board agreed that the sum of £10 10s. should be recovered from a chemist in a case in which the service committee had recommended that a sum of £2 2s. should be recovered. The chemist said that a mixture — which was deficient in light kaolin, magnesium carbonate and sodium bicarbonate — was dispensed by an assistant from a freshly made up winchester apparently without the stock bottle having been properly shaken. In reply to Mr. Kernahan, the chemist stated that he could not explain why insufficient shaking should result in one of the ingredients being 35 per cent. deficient and the other two only 5-6 per cent.

Expansion Urged

POTENTIAL BUSINESS INDICATED

PHARMACISTS have a big potential field of business in horticultural and veterinary preparations, according to MR. MAURICE POWER, Limerick (vice-president, Pharmaceutical Society of Ireland). Attending a meeting of Kerry Chemists' Association held in Killarney

on April 22, Mr. Power impressed on members the urgent need to interest themselves in the potential big business to be handled in those fields. He stressed the need for having a series of local lectures so that chemists could be conversant with the latest antibiotic and vaccine preparations for cattle and horses, and the new products for the treatment of parasites in the animal and horticultural field. MR. BRENDAN R. SMITH (secretary, Irish Drug Association) participated in a discussion on local matters and the provisions of the Health Act.

Sterilisation

TECHNIQUES SHOWN TO PHARMACISTS

A SERIES of demonstrations on sterilisation, arranged throughout Northern Ireland by the Local Pharmaceutical Committee, have been held at Coleraine, Portadown, Omagh, and Londonderry. They were conducted by Mr. G. E. McIlhagger and Mr. J. A. S'rahan (deputy chief pharmacist and pharmacist respectively, Royal Victoria Hospital, Belfast). Further demonstrations are being held in Belfast, May 18 and Newry, June 1.

IRISH BREVITIES

OF the twelve candidates who sat for the April Assistants' examination of the Pharmaceutical Society of Ireland the following passed: Thomas Dooley, Thomas Fahey, Anna M. Fitzgerald, Mary A. Geoghegan, Christina J. Loughlin, Philomena Martin, Ellen P. Murphy, Brian Raftery, and Denis Ryan.

IN the Grand national sweepstake held by the College of Pharmacy Gaelic Athletic Association club recently, Mr. John Kerr, Dublin, drew the winning horse; Mrs. McCormack, Booterstown, co. Dublin, the second; and Mr. Frank Doyle, Shankhill, co. Dublin, the third. The sellers' prize was won by Mr. B. McWeg, Crumlin, Dublin.

THE Irish Department of Health held consultations recently with representatives of the Council of the Pharmaceutical Society of Ireland, and the Royal College of Physicians in connection with forthcoming new poisons legislation now being prepared for introduction in the Dail.

THE 1956 Index List of the Irish Drug Association has been distributed to members. In the new list all preparations are listed alphabetically instead of under the names of manufacturers. Any member who has not received his copy should communicate with the secretary of the Association.

MR. W. Norton (Minister for Industry and Commerce, Irish Republic) announced in the Dail on April 17 that glucose is being produced at alcohol factories at Labbadish, co. Donegal, and Corroy, co. Mayo.

A WINDOW of the pharmacy of J. Leonard & Co., North Earl Street, Dublin, was smashed recently and electric razors and other goods to the value of about £20 stolen.

THE official ban on the sale by retail chemists in the Republic of Ireland of aureomycin for the treatment of white scour in calves has been lifted.

TOPICAL REFLECTIONS

By Xrayser

Candidates for Bloomsbury

The pages devoted to the careers and policies of candidates for the forthcoming Council election are of value in helping the voter to assess the relative merits of those who are prepared to devote the required time to work which is interesting, if at times apparently thankless. All presenting themselves this year have served the necessary apprenticeship in their own branch organisation, and can lay claim to achievement in the necessarily more restricted sphere of local pharmaceutical politics. I was interested to note that only three of the candidates referred to the practical training of the student. The three belong to different age groups, and all emphatically support pregraduate apprenticeship. It is worthy of note that one of the retiring members offering himself for re-election considers that the Council concentrates too much on the degree course and does not give sufficient attention to the Qualifying examination. That is an opinion one would like to see amplified, coming as it does from one who has served the Council for over a quarter of a century, and who presumably has made the statement after carefully weighing his words.

Unvarnished Truth

The happy little rhyme by J. J. Hayton (p. 327) with a title diametrically opposed to that chosen for my paragraph, proclaims the changes that have taken place since the beautifully made and labelled drawers were made and fitted into the older pharmacies. His inspired verse caused me to have another look at the names embellished on my own drug-run, some of which still conform to the label. Accommodation is provided for two kinds of aloes, and no fewer than three kinds of cinchona bark, and of the five mentioned only one provides reliable information. Many of the drugs named on the labels had a long career, but they have ceased to be prescribed in these days of modern medicine, in which the doctor has daily "refresher courses" in pharmacology from earnest young men whose function it is to impart knowledge that will be capable of only one translation. The truth is that change, though perhaps not necessarily progress, is so rapid that it is no longer worth while to have permanent labels on the drawers. How mortifying it must be for the popular ethical proprietary of only a year ago to find itself "on the shelf" beside such veterans as asafœtida, gamboge and ammoniacum! The Valhalla of disused drugs is no longer confined to products which have served generations, but at least the new arrivals among the discarded have the satisfaction of knowing that they were very expensive.

Grains of Paradise

The drawer in which Mr. Hayton now appropriately keeps the tea once contained seeds that were a valuable article of commerce in the spice trade of early times. Up to the fourteenth century, the seeds reached Europe from North Africa by way of Italy. Their source was unknown, since the drug reached Tripoli, after a long journey through the desert, and as a result the name "Paradise" became attached. Later, direct trading with the Gold Coast obviated the need for the cross-country trip, and after a spell of Portuguese monopoly—not an unknown state of affairs in regard to spices—England began to import it direct in the sixteenth century. It was used as a condiment, and entered also into the preparation of wines. Pharmaceutically, its principal purpose was an ingredient in cattle medicines, though it appeared in some early formulas for human use. An old recipe book shows that Paradise grains were present in tinct. Sennæ co. and in tinct. gent. co. The formula for tinct. card. co. exhibits the embellishment of the age by including both cardamon minor and paradise grains. It will be seen, therefore, that the drug had a reputation as a carminative in a period when, if a carminative were thought desirable, there was no good reason for stopping at one only. Cinnamon, cassia, cardamons, Paradise grains, pepper and ginger must have acted with praiseworthy alacrity.

BRITISH PHARMACEUTICAL INDUSTRY

Association's annual dinner and meeting

THE Association of British Pharmaceutical Industry held its annual dinner in London on April 25, with the Minister of Health as its principal guest.

A Great Future

THE PRESIDENT (Mr. C. Mervyn Hill), who was in the chair, proposed the toast of the guests. He said he believed that the Association's activities had never at any time been questionable or sinister. No one who visited the special exhibition of modern drugs on view at the British Industries Fair would seriously doubt that the British pharmaceutical industry had a great future. The Association hoped it would attract the attention of many young people as yet uncommitted to a career.

The president went on to mention that a committee formed about a year previously from companies concerned in the manufacture of products for the veterinary surgeon had now been incorporated in a veterinary division, in which were no less than twenty-seven firms. Despite keen competition from many other nations, the industry had maintained its position as the second largest exporter of pharmaceuticals in the world. While exports had increased, imports of pharmaceuticals had fallen in the same period from £9.6 to £7.7 millions. Such figures established beyond doubt that the industry was an asset of national importance. Since, however, they believed that exports must be based upon a stable home trade, they hoped those in authority would take the broad view in seeing the problems of the industry. Since they had become part of the National Health Service they had often been a target for the guided missiles of the Ministry of Health. Without sufficient profits, however, they would not continue to finance research, nor maintain plant in the efficient state required if they were to remain among the leaders in the face of world competition.

In reply, the RT. HON. ROBERT H. TURTON, M.C., J.P., M.P. (Minister of Health), said that the industry and himself "had a common aim in the health of the nation."

He gave a standing invitation to representatives of the Association to talk over with him the problems of the industry. It had, he said, a wonderful record. In 1938, before the last war, the value of its gross output was £19 millions. The figure for 1954 was £134 millions. He did not believe there were many industries in the country that could show such a huge expansion of gross output. He rather believed they had the impression that those figures, which put a smile on the face of the President of the Board of Trade, placed on his own physiognomy a frown and a certain anxiety. He would like to remove that apprehension. The industry's exports in the past twenty years had increased from £3½ millions to £36 millions a year. If every industry had been equally successful, Mr. Harold Macmillan would have few problems

today. One member of the Association had recently obtained a contract for supplying and equipping a pharmaceutical industry for the Government of Burma. As a result there was going to be a tremendous gain to British industry, in the sale not only of pharmaceutical products but of building materials, and in introducing into Burma some realisation of the pre-eminence of British constructional engineering.

"I have got one great desire, and that is to give this country the best Health Service it can afford. It is a great help to me to know that I can rely on British pharmaceutical products as being the best. I am glad that this year in which I have taken office is the first for some time that the rising tendency of imports has, as your president said, been checked. A drop of £2 millions in imports not only gladdens the Chancellor's heart but gladdens mine."

There was another side on which he wanted to congratulate them — their help and success in producing an anti-polio myelitis vaccine. It was a great triumph for the British pharmaceutical industry. Over 1,600,000 children were registered as applicants for the vaccine. In nine counties and seven county boroughs the applications had been 40 per cent. or more of those eligible for registration. Not all those applicants would be able to get the vaccine before July. It looked as if three out of four would have to be disappointed. But it seemed to him important that he should take great precautions over any such great innovation. The vaccine that was being produced was as safe as could possibly be devised. They all knew as scientists that in that field there was always danger.

Ahead in Export and Invention

Turning to the National Health Service, the Minister said that the gross cost of prescriptions had risen from £31½ millions in 1949 to an estimated cost this year of £53 millions. That naturally caused concern. The industry would realise that the Government had a duty to satisfy itself that the size of the bill was kept to the minimum consistent with the purposes of the Health Service and with the industry's own requirements. That was the line he must take. He realised that that great pharmaceutical industry, which was forging ahead in export and invention, had got to put by every year a portion for research. His only prayer, as Health Minister, was that they might put aside for research some greater proportion of their profits on exports and relieve the third of their trade that was subject to the scrutiny of the Chancellor of the Exchequer. He had been grateful for the industry's co-operation in the Government's examination of one aspect of the problem: the levels of the prices charged by the manufacturers and wholesalers of standard drugs. It was gratifying that in that field they were able to reach the conclusion that

there was no cause for intervention at present. He was now seeking a basis for settling the reasonableness of the prices of proprietary preparations. That was not necessarily a popular occupation. The president had described it as a guided missile. He was glad it was guided and not misguided. It was, he feared, a necessary task, and he had no reason to think it would not be accomplished with the happy relationship they had had before. It did mean difficulties, because he had got to satisfy the British public, Parliament, and primarily the Chancellor of the Exchequer, that he was not wasting any money as he healed or helped to heal the nation with the help of the industry and the medical profession.

Annual Meeting

The annual meeting of the Association had been held in the afternoon, the president (Mr. C. M. Hill) in the chair.

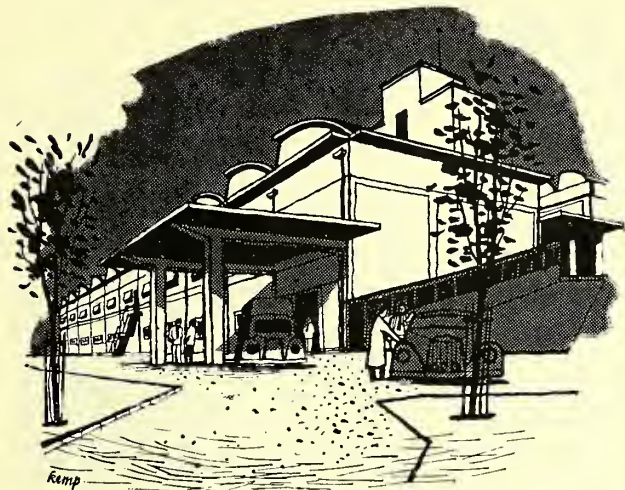
The names of candidates successful in the council election were announced. They were Messrs. W. N. Boorne (Evans, Gadd & Co., Ltd.); R. C. Feather (Meggeson & Co., Ltd.); E. J. Fleetwood (Howards of Ilford, Ltd.); N. E. Forster (Hall, Forster & Co., Ltd.); H. C. H. Graves (Vitamins, Ltd.); and G. S. Woolley (James Woolley, Sons & Co., Ltd.). The meeting unanimously approved the election of Colonel S. Watson, D.S.O., M.C., B.Sc., who recently retired from his position as managing director of James Woolley, Sons & Co., Ltd., as an honorary member of the Association. Colonel Watson, who continues as a director of the company, had rendered outstanding services to the Association during more than twenty years. He was first elected to its council in 1935, and was its chairman in 1937 and 1938. He became the first chairman of Division A following the reorganisation of the Association in 1950.

IN PARLIAMENT

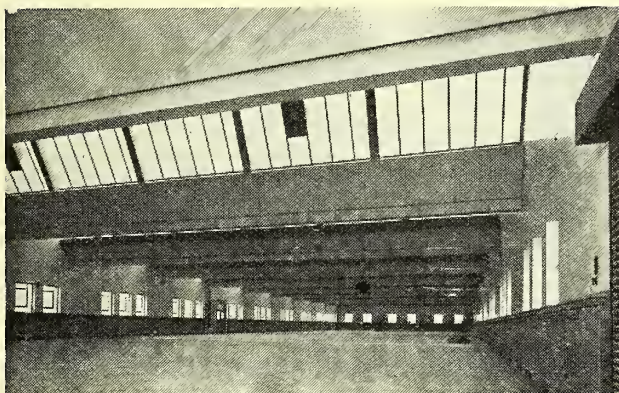
MISS P. HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR. C. HUGHES on April 30 that the claim of dispensing chemists for increased remuneration made in 1952 was not supported by sufficient facts. The Public Accounts Committee had several times drawn attention to the need that any claim of that nature by professional bodies must be supported by facts that would satisfy not only the Department but the Committee too. The claim that was made on February 16 did provide more information and must be taken as a starting point for the negotiations.

Average Cost of Prescriptions

MISS P. HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR. A. BLENKINSOP, in a written answer on April 30, that the average cost of prescriptions in England and Wales in February was 4s. 4.87d., against 4s. 2.09d. for February 1955.



Top left: An artist's impression of the new production unit at Dartford. Below: One of the wings in which eleven or so packaging lines may operate simultaneously, as in the insulin line (right).



A PHARMACEUTICAL PLANT EXPANSION

Adaptability the keynote among many new features at Dartford

A NEW pharmaceutical production unit of the Wellcome Foundation, Ltd., was opened by Sir Henry Dale (chairman of the Wellcome Trust) at Dartford, Kent, on April 27.

The unit, costing about £400,000, consists of two parallel single-story wings each 274 ft. by 72 ft. linked together by a three-story central block. One of the wings is devoted to the preparation, filling and inspection of injection products; the filling of insulin is also carried out there, but not of the company's serological products. In a section of this wing the vials and ampoules are machine-washed, dried and many of them Refafix-labelled before passing to an adjoining sterile area for filling.

Insulin vials, after an elaborate series of washings, are sterilised in what must be one of the largest autoclaves in the country. When ready, the vials are taken out from the other side of the autoclave, which is actually situated in the aseptic area, the autoclave acting as a division between the two sections. Four production lines are at present working in the cleansing and labelling section just described, and since, at any one time, several different batches of ampoules are being prepared for filling up to the stage of labelling, complete segregation of each line is effected by means of partitions.

In the aseptic filling area, sterile air is supplied by ducts built into the fabric of the building. Two filling machines, one British and the other German, are used at present to fill and cap insulin vials. Though machine methods are used where possible, it is still necessary for every filled ampoule and vial to be inspected by a worker for flaws, specks or short measure. Her arms resting on supports appropriately situated on the bench, each worker inspects and sorts about 500 ampoules an hour. The rest of the wing is taken up by a series of laboratories in which the injection solutions are prepared and tested.

The whole of the other wing is used for the general packaging of the company's products. At the moment eleven production lines are so employed. Since most of the compressed products and insulin are presented in cartons, machinery is employed on each line to open the carton, insert the bottle and leaflet, and finally close the carton. The section linking the two wings contains changing rooms, cold store, workshop, canteen, offices, etc.

A feature of the building is its adaptability. In modern production changes occur frequently, and to meet them the building is capable of being quickly adapted. The main floors can be used as open areas or subdivided, under-floor access to all working areas

permitting the provision of service without any dislocation to current production. From one of the illustrations above it will be seen that the exceptionally broad roof span has no pillars for support. By day, the plant is lit by 6-ft. "north" lights; by night it has modern concealed electric lighting so arranged that shadows are reduced to a minimum. The general space-heating system of the factory area is designed to give a temperature of 70° F. when the outside temperature is 30° F. To make that possible, elaborate insulation of the roof has been necessary to avoid loss of heat and consequent wastage of fuel.

N.H.S. STATISTICS

In BIRMINGHAM during September 1955, the average cost per prescription was 47·3d.

In LANARKSHIRE during 1955-56 the cost of pharmaceutical services was £44,000 less than in 1954-55.

In NOTTINGHAMSHIRE during 1955-56, pharmaceutical services cost £955,993—an increase of £53,498 compared with 1954-55.

In NORTHERN IRELAND during September 1955, 583,494 prescriptions (355,969 forms) were dispensed at a total cost of £157,342. Average cost per prescription was 64·7d.

LEGAL REPORTS

Illegal Possession

At Liverpool, on April 26, Khagendra Kumak Sarkar, a Pakistani seaman, was sent to prison for six months after pleading guilty to being in unauthorised possession of Indian hemp on April 17. He had been found carrying a total of 27 oz.

Pharmacy Act Fine

At Manchester, on April 19, Hillside Pharmacy, Ltd., Victoria Avenue, Blackley, pleaded guilty to selling tablets containing amylobarbitone, and to selling betaaminopropylbenzene without prescription. Solicitor for the Pharmaceutical Society, which prosecuted, said they had gone to great pains to bring to the notice of pharmacists changes made in the poisons schedule. The managing director of the company had said he was not aware that the drugs had been transferred to a schedule that required a prescription. The Society and the Home Office were much alarmed about a situation involving drugs of habit-forming type which manufacturers were finding it extremely profitable to put on the market. If chemists did not read information circulated to them the situation became hopeless. Defending solicitor complained that notification of the changes was "very casual." The customers had signed the poisons register. Imposing a fine of £25 the stipendiary magistrate said there was no suggestion of illicit sales of drugs to irresponsible people.

Not in Locked Receptacle

At Wisbech, Cambs, borough magistrates' court, on April 25, Phillip Radcliffe, Littleport, a director of Phillip Radcliffe, Ltd., chemists, Wisbech and Littleport, was fined a total of £15 on two summonses alleging that he failed to keep Dangerous Drugs in a locked receptacle. The first offence (fine £10) took place at 98 Norfolk Street, Wisbech, and the second at 12 Main Street, Littleport. According to the prosecution, Mr. Radcliffe was ill when a routine check was made at the Wisbech shop. When a search was made for the key of the Dangerous Drugs cupboard it was found that the cupboard was unlocked, and the prosecution suggested that the cupboard had not been locked for the best part of three weeks. The key of the Dangerous Drugs cupboard at the Littleport shop was found unturned in the lock. Defendant told the court that he had a locum at the Wisbech shop, and had not been near the premises for four weeks around the time of the offence. He admitted having been careless at Littleport.

Flies in Medicine

BECAUSE flies were found in medicine stored at an Oldham, Lancs, pharmacy, certain bottles used by chemists all over the country might become obsolete, it was suggested by defending counsel in a prosecution at Oldham, Lancs, on April 25. Oldham Co-operative Chemists, Ltd., pleaded guilty to selling, through their manager, a cough mixture containing flies, and were fined £5. The man-

ager (Mr. Stewart W. Smith, Parkfield, Chadderton) was fined £2 for selling the cough mixture. The prosecution stated that a customer bought two bottles of medicine from the Society's pharmacy at 152 Huddersfield Road, Oldham, on February 15. Flies were found in both. One bottle had been partly consumed. It contained four flies. The bottles were passed up to the bench, and the magistrates examined them, using a torch. On February 18, a sanitary inspector went to the shop and examined the bottles containing the ingredients of the medicine. In a bottle of syrup of rhubarb he found a number of flies. Apparently the mixture had been in stock for two or three years. The syrup of rhubarb was filtered, and some flies placed in a pill box, which was also handed to the magistrates. The pharmacist's explanation was that the loose glass stopper of the bottle had somehow become displaced. Counsel for the Co-operative Society said that the matter was serious and nobody was more concerned than the defendants that it had happened. He apologised to the customers for any distress and inconvenience caused. The Society, he said, had carried on the previous owner's custom of making up syrup of rhubarb in bulk and storing it in bottles specially made for the purpose. Syrup of rhubarb was used only in old-fashioned remedies, and was not often used. Bentley's "Text-book of Pharmaceutics" was quoted to show that syrup of rhubarb was difficult to store. A warm atmosphere induced fermentation; cold caused crystallisation. The book suggested keeping the syrup in a cool place with a loose glass stopper. That had been done. It was suggested that there had been some fermentation in the syrup, lifting the stopper sufficiently to admit the flies, which had been attracted by the contents. An instruction had now been given by the Co-operative Society that the syrup should be made up only as required, and kept in bottles with corks. From the point of view of chemists throughout the country, the bottles they had used for years might well become obsolete, the case having shown the danger of that type of bottle in certain circumstances. There had been no gross negligence or indifference to the safety of the public. The magistrates said they thought the explanation reasonable.

"Pillaging" by Employees

PRISON sentences were imposed by the North London magistrate, on April 24, on a woman and two men who were alleged to have joined in deliberately pillaging May, Roberts & Co., Ltd., wholesale chemists, Stamford Hill, N.16. Harry Sidney Frank Lewis, Islington, employed by the company as a warehouseman, pleaded guilty to stealing, between April 1955 and April 1956, cosmetics, home permanent wave sets, films, razor blades and other items to a value of £118. He was sent to prison for three months. Mrs. Lilian Marie Birchenough, office manageress, Crouch Hill, pleaded guilty to receiving the property, knowing it had been stolen. She was sent to prison for six months.

William Richard Brightman, printer's warehouseman, also of Crouch Hill, pleaded not guilty but was convicted of receiving part of the property, value £57, and sent to prison for three months. Giving evidence against Brightman, a detective-sergeant said that, with a woman police constable, he saw Brightman detained at Snow Hill police station. He told Brightman he had reason to believe that the contents of a carrier bag which defendant had with him when stopped had been stolen. Brightman said: "Yes, I knew it was not all right. I got it from a neighbour of mine, Mrs. Birchenough. She gets it from where she works." Called as a prosecution witness, Mrs. Birchenough said she had "given Mr. Brightman some articles to get rid of." He had asked her if they were "on the level," or something like that, and she had replied that it was all right—she got them cheap. He had given her about £4. Replying to Brightman, she agreed that he had asked for a receipt. Mr. Arthur R. Desert (a director of the company) said he had seen the articles concerned. Some could be identified by code numbers. Others were goods similar to those sold. The prices given in the charge were the retail prices. On oath, Brightman said he occupied a flat at Mrs. Birchenough's address. She had given him presents of such oddments as soap. Eventually she had said she could get stuff cheap if he could sell it. She said the stuff would be about three-quarters the shop price. He sold some of it, adding a few coppers to the price quoted. After a time, his wife became upset, thinking that the transactions were not straight, and he tackled Mrs. Birchenough, who convinced him it was "quite O.K." He agreed that he might have told the detective-sergeant "I knew it wasn't all right."

The magistrate was then told by the detective-sergeant that, according to a statement made by Mrs. Birchenough, she had approached Lewis and asked him to steal stuff for her. He did so, and from time to time she gave him money. He left the goods in a part of the factory for her. The officer reported that Lewis had been with the company since he was fourteen, apart from the time he was in the Army during the war. He had had no previous convictions. In 1940 Mrs. Birchenough had been bound over at the Guildhall justices' room for embezzlement. She had been with the company sixteen years and was in "a position of extreme trust." Brightman, a married man with four children, had, in 1931, been convicted of stealing a motor car. "The company are very shaken by these offences by employees, both of long standing," he said. The magistrate: The real instigator of the whole of it was Mrs. Birchenough, who suggested it to Lewis and to Brightman. —"That appears to be the case but she has received ample co-operation." Lewis had nothing to say in court. Brightman said he would like to plead on behalf of Mrs. Birchenough. Mrs. Birchenough handed the magistrate a medical certificate, saying a doctor had told her husband she was a dying woman. She was truly sorry for the harm she had done.

COMPANY NEWS

Previous year's figures in parentheses

ASPRO-NICHOLAS, LTD. — Mr. J. S. Walmsley, M.P.S., has resigned from the board.

PFIZER INTERNATIONAL, New York. — Mr. Richard Fenton (vice-president of Pfizer International subsidiaries) has been elected to the board.

WRIGHT, LAYMAN & UMNEY, LTD. — Ordinary dividend recommended for 1955 is 10 per cent. (same). A one-for-two scrip issue is also proposed. After deducting £16,000 (£15,000) for possible future depreciation of stock and £1,000 (nil) for possible depreciation of investments, the profit is £75,187 (£69,385). Revenue reserve account again receives £10,000, leaving to carry-forward £9,647 (£9,018).

UNITED GLASS BOTTLE MANUFACTURERS, LTD. — Group profit, before tax, for 1955 was £1,409,423 (£833,008) including the profit of Alloa Glass Works from March 28, 1955. After tax of £696,456 (£459,057) also deductions of outside interests and pre-acquisition profits, the sum attributable to the holding company is £625,325 (£333,256). The profit includes tax credits for £34,486 (£13,450). A final dividend on £3.2 millions Ordinary capital of 7½ per cent. is proposed. Previously an interim of 3¼ per cent. on £2.4 millions was announced.

F. W. BERK & CO., LTD. — The address by the chairman (Mr. A. D. Berk), accompanying the accounts for 1955, states that the net profit amounted to £185,561 (£183,704 in 1954) which before charging taxation was £359,806 (£374,761). The falling-off in business during the holiday period was more marked and longer sustained in the year under review than in previous years. All services continue progressively to cost more, but sales for 1955 constituted an all-time record, being 5 per cent. higher than in 1954. For preliminary figures see *C. & D.*, April 21, p. 290.

IMPERIAL CHEMICAL INDUSTRIES, LTD. — A final dividend of 6 per cent. making a total of 10 per cent. is recommended for 1955 (same). Group sales for the year amounted to £411 millions (£352 millions) including £43 millions in respect of the Canadian subsidiaries for which only six months' sales were included in the consolidated sales for 1954. Group income, before tax, is £53.6 millions (£47.7 millions) after charging £20.4 millions (£16.6 millions) for depreciation and providing £2.8 millions (£2.7 millions) for employees' profit-sharing bonus. After tax of £23,900,433 (£21,226,230), the group's net profit is £29,678,652 (£26,458,372).

THE BRITISH DRUG HOUSES, LTD. — Preliminary statement of results for 1955 shows group profit, after all charges, except taxation, at £522,076 (£485,841) with taxation at £291,192 (£269,309); group net profit, £230,884 (£216,532). The whole of the profits in both years is attributable to members of the holding company. After retaining £21,025 (£32,561) in the accounts of

subsidiary companies, there remains the net profit of £209,859 (£183,971) to which is added the carry-forward of profits from the previous year of £89,789 (£86,818) making a total of £299,648 (£270,789). Provision for taxation no longer required, nil (£120,000). Ordinary dividend recommended is 17½ per cent. (15 per cent. plus 2½ per cent. bonus).

COOPER, McDUGALL & ROBERTSON, LTD. — Net profit of the parent company for 1955, excluding Argentine subsidiaries, is £135,493 (£262,498); consolidated profit before taxation, £333,542 (£485,247); taxation, £145,770 (£262,641). Consolidated profit includes £9,000 (nil) from Argentine for year to June 1955. Profit also includes income from associated companies, £76,617 (£73,022) and is stated after deducting depreciation of £111,173 (£91,978). The Argentine subsidiary companies showed profits in Argentine pesos as follows:—Consolidated profit for the year, before taxation, 2,350,376 (3,857,972); taxation, 825,388 (1,122,735) and consolidated net profit, 1,635,742 (2,949,741). Ordinary dividend, 10 per cent. (same, plus a bonus payment of 5 per cent.); carry-forward, £69,695 (£68,915).

BORAX CONSOLIDATED, LTD. — The company has announced its future plans, which include the formation of a new American operating company to carry on activities in the United States and transferring the non-U.S. business to a new United Kingdom subsidiary. The company, therefore, will become a purely holding company, owning shares in the British and overseas subsidiaries. American interests have agreed to invest approximately \$7 millions in the new company's equity and others have agreed to make available \$16 millions loan capital. The three most important advantages are retention of the company in the U.K., reduced tax burden, and finance to provide for expansion. The overall result, state the directors, should be higher earnings and sustained growth in the group's operations and assets.

MANCHESTER OIL REFINERY (HOLDINGS), LTD. — While the results proved more satisfactory than when the interim dividend was announced in November 1955, the profit was lower than anticipated twelve months ago. In this connection the chairman (Mr. R. E. F. de Trafford) reports that the difficulties experienced with the new chemical plants have now been overcome. Commenting on prospects, Mr. de Trafford tells shareholders that changes in organisation and operating methods have been made at the refinery to counter the adverse effect of the wage increases which will become effective during 1956. The main additions to the sulphate plant have been much delayed "by circumstances outside our control," but it is hoped that the additional plant will come into operation by the end of the current year. Prospects on the chemical side of the business are encouraging and should contribute to the profit this year.

MARRIAGE

Silver Wedding

MILNE—BERTRAM. — At Lesmahagow, Lanarks, on April 30, 1906, William Milne, M.P.S., to Margaret D. Bertram, M.A. Present address: Avenue Place, Lesmahagow.

DEATHS

PIRRIE.—On April 13, Mr. George Pirrie, F.P.S., Milltown, Rothiemay, Huntly, Banffs, aged seventy-one.

RILEY.—On March 28, Mr. Edward Riley, M.P.S., 60 Albion Street, New Brighton, Ches. Mr. Riley qualified in 1926.

JOHNSON.—Suddenly, on April 27, Mr. Arthur McComas Johnson, Ridge House, Ballybrack, co. Dublin, aged fifty-two. Mr. Johnson was a director, among other companies, of Johnson Bros., Ltd., pharmaceutical and photographic distributors, Dublin.

TAYLER. — Recently, Mr. Ernest Walker Tayler. Mr. Tayler qualified as a chemist and druggist in 1891 and passed the Pharmaceutical Chemist examination in 1892. He was formerly in business in Cheap Street, Sherborne, Dorset, for forty years until his retirement in 1939.

INQUESTS

From Mother's Handbag.—At an inquest in Coventry recently, the coroner recorded a verdict of "Death from misadventure" on three-year-old Margaret Green, 9 Armfield Street, Coventry, who died in Gulsan Hospital two days before the inquest. A pathologist said death was due to ferrous-sulphate poisoning. The child had climbed on to a chair to reach her mother's handbag perched on the window ledge and taken from it the green tablets, so like sweets. She ate the equivalent of 90 grains.

No Financial Worries.—A verdict of "natural causes" was recorded by the Southport coroner on March 5 at an inquest on Mr. George Alexander Williamson Moffat, aged seventy-four, of Coudray Road, Southport, a Liverpool retail chemist, who had been found dead in bed at home. A post-mortem examination showed that he died from coronary atharoma. His daughter, with whom he lived, said he had been prescribed sleeping tablets and had got into the habit of taking far more than the number prescribed. On several occasions he had been found in a coma. He had no financial worries, and she knew no reason why he should take his life. She had found a note in which he stated he had taken ten sleeping tablets without any effect. A medical practitioner said the amount of barbiturate recovered was not a fatal dose for a person accustomed to taking barbituric acid.

BUSINESS CHANGES

ASSOCIATED PRODUCTS (ENGLAND), LTD., is the new title adopted by Tattoo Cosmetics, Ltd.

THE style and address of H. P. Stinton, 14 Market Street, Jersey, has been changed to Davenport & Manney, 3 Dumaresq Street, St. Helier.

PERSONALITIES

MR. T. G. COCHRANE, M.P.S., has been reappointed a member of Gallo-way Executive Council.

MR. DENIS J. MURPHY, M.P.S.I. (president, Irish Drug Association) was featured in the *Irish Independent's* series of angling personalities recently.



Mr. G. E. Mann (Parke, Davis & Co., Ltd.), who was recently elected president of the Chemists Federation

MR. WILLIAM A. STURDY, M.P.S., Filey, Yorks, is a candidate for election to Filey urban council on May 8.

MR. HARRY HODGSON, M.P.S., Whitefield, Manchester, has been elected a conservative member of the Whitefield council.

MR. NORMAN DRIVER, F.P.S. (laboratory manager, Ayrton, Saunders & Co., Ltd.) was successful in the recent examination for the associateship of the Royal Institute of Chemistry.

MRS. M. MURRAY, a West Indian member of the staff of the Chemists Federation, took part in a recent broadcast discussion on the Federation of the West Indian Islands.

MR. T. B. HARVEY, M.P.S., Devonport, has been reappointed a member of the South Devon and East Cornwall Special Hospital Management Committee.

MR. J. ANDERSON STEWART, B.Sc., B.L., F.P.S. (secretary, Middlesex Pharmaceutical Committee), has been appointed a member of the board of governors of St. Bartholomew's Hospital.

MR. AUBREY D. M. DAVIES, F.P.S. (deputy chief pharmacist, St. David's Hospital, Cardiff) has been elected chairman of the South Wales Branch of the Guild of Public Pharmacists.

MR. A. U. WHITWORTH, M.P.S., aged seventy-nine, has been returned unopposed to Dover rural district council. He is the longest-serving councillor, having been first elected in 1933.

MR. S. H. SCOTT, F.P.S., Watford, contributed a number of Spanish guitar solos to a programme called "The Music and Dances of Spain," given in the Institute, Hampstead Garden Suburb, London, on April 21.

MR. M. P. H. CHIPPERFIELD, M.P.S., who has retired after twenty-six years as manager of the Lowestoft, Suffolk, branch of Boots, Ltd., is continuing his association with the company as a relief chemist for its branches in the area. He was at Mansfield and Epsom before going to Lowestoft.

MR. ARTHUR HARRIS, M.P.S., the new manager of the Lowestoft branch of Boots, Ltd., has been manager of the company's Cromer, Norfolk, branch for the past seven years. He has assisted the Sheringham and Cromer Choral Society and gained successes in the Cromer and North Norfolk Festival of Music and Drama. He has also been a member of Cromer parish church choir.

COLONEL STANLEY WATSON, D.S.O., M.C., B.Sc., who has retired for health reasons from his position as managing director of James Woolley, Sons & Co., Ltd. (C. & D., April 28, p. 136) has been a member of the board of the company since 1921, managing director for twenty-nine years. He is continuing as a director. He was a member of the Wholesale Drug Trade Association from its inception in 1928 and served as its chairman during 1937 and 1938. In 1949, when that association was re-named the Association of British Pharmaceutical Industry, he continued to serve prominently on several of the committees. He served on the council

of the Proprietary Articles Trade Association, 1922-55 and for many years was a member of the executive committee. He was president of the P.A.T.A. in 1930 and again in 1942. On his retirement he was appointed an honorary member of the council. He served for a long period on the executive council of the Drug and Fine Chemical Manufacturers' Association (now the Association of Chemical and Allied Employers) and also served on committees of the Chemists' Friends Association (now the Chemists' Federation).



Mr. Frank Schon, who was recently appointed to the board of Albright & Wilson, Ltd.

PRODUCTION OF VANILLA BEANS

Their cultivation on Reunion described

MODERN methods of producing vanilla beans in Reunion, which Mr. G. R. A. SHORT, F.P.S., F.L.S., had seen on a recent visit, were described by him at a meeting of the Hendon and Edgware Pharmaceutical Association (of which he is a past-president), in Edgware, on April 9. Reunion, he said, had a climate varying according to altitude from tropical to temperate. The high reputation that the island possessed for quality of vanilla beans was being guarded jealously by the inhabitants, and no pods could be exported until they had been passed as satisfactory by government inspectors.

During cultivation in Reunion the climbing vanilla orchids were supported by rows of strongly-rooted posts which were the living boles of trees (*Satropia circus*) truncated to a height of about 4 ft. 6 in. Cuttings of the orchids were planted near to the posts, and as the stems grew they were taken over the top of the posts and allowed to trail down on the other side. Because of an apparent lack of insects in the island, the vanilla flowers had to be hand-pollinated. The growing beans were yellowish-green in colour and the moment of their collection had to be chosen correctly to avoid splitting (with loss of value) in the subsequent processing.

In the first stage of curing, the freshly-picked fruits, held in wicker baskets, were immersed in water at about 65° C. for five minutes. While still hot they were transferred to blankets, and allowed to sweat in boxes overnight. Then followed a period of eight to fourteen days of open-air drying on wicker platforms, and, during rain, protection was provided by waterproof plastic sheets. As the beans dried they changed in colour to brown.

The final drying was done in about fourteen days in ventilated sheds. At

that stage the pods were graded, first according to quality, and then according to quality and length, into grades 1, 2, 3, vanillons (shorts), and "splits." The sorted beans were then bundled, with three pieces of string per bundle, placed in tins, and stored for three weeks, after which the two outer strings were cut, producing the centrally-tied bundles of commerce. These were placed in paper-lined tins and stored for a further period of from three months to two years, during which "frosting," i.e. crystallisation of vanillin externally, took place. Frosting, however, did not improve the flavouring value of the beans.

The tins of the final product were locked in a room until inspected by the government officials. Inferior lots were required to be cut into small pieces before export, and they were usually destined for the American market for the manufacture of extract of vanilla. Growers' marks pierced in the fruits while on the plant persisted and identified the ownership of the beans right through the curing processes.

Although the price of vanilla beans was dropping, there was still a large demand for natural vanilla, for whereas synthetic vanilla flavours were "good in their way," they could be improved greatly by combination with vanilla-bean products. That effect the lecturer demonstrated by providing for inspection, samples of different essences.

Mr. Short mentioned other aromatic products of Reunion, including Bourbon geranium oil, ylang ylang oil, and vetiver oil.

Mr. Short said that pharmacists should take a greater interest in flavourings. Many of their own-name pharmaceutical preparations could be improved, and they could build up specialist advisory services to customers on domestic essences.

SHOPFITTING AND DISPLAY NOTES

Vitreous Mosaics.—Vitreous mosaics imported from Italy by A. Elder Reed & Co., Ltd., 103 Battersea High Street, London, S.W.11, are proving popular in Britain for shopfitting purposes. The mosaics are in various colours and supplied either loose or fixed on paper (for forward delivery) in approximate 12-in. sheets ready for fixing.

Facing Material.—A Norwegian facing material, Mineralite, now available in this country, consists of graded and mixed minerals, cements and other components. The product may be applied to concrete, brickwork and other surfaces, including timber. The suppliers are Kendell's Stone & Paving Co., Ltd., 70 Stafford Road, Croydon, Surrey. The material is highly resistant to the passage of water, but resistant to shrinkage, cracking and crazing. Twelve colours are available.

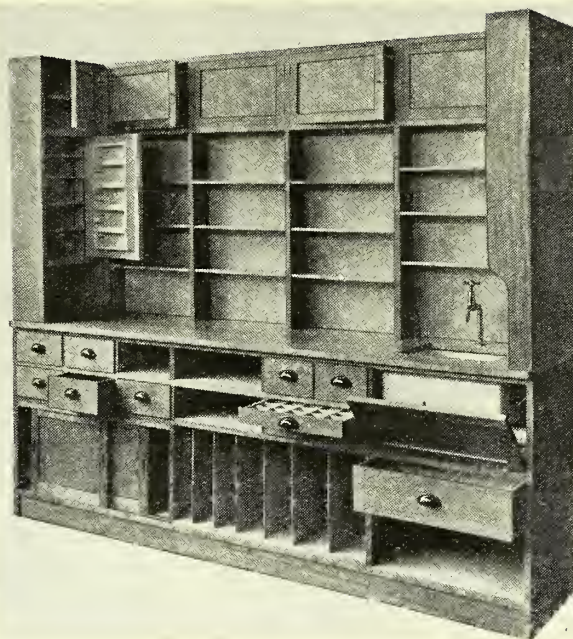
Lighting Demonstration Centre.—A new showroom and lighting demonstration centre was opened recently by Philips Electrical, Ltd., at Century House, Shaftesbury Avenue. It provides a contemporary setting for the company's range of lamps and lighting equipment, electrical and electro-acoustic appliances, etc., and permanently demonstrates the company's lighting design service. A demonstration unit has been provided for the Philishave dry shaver. The showrooms are open from 9 a.m. to 5.45 p.m., Monday to Friday.

Anti-condensation Device.—A device to overcome the steaming-up of windows is marketed by Buttons, Ltd., Portland Street, Birmingham, 6. Its initial cost is low and it involves no maintenance or running costs after fixing. The Mist-free panel consists of a flat, circular disc of Perspex edged by a neat rubber moulding and fitted to the inside of the window by a suction device located in the centre of the panel. In effect it provides an area of double glazing that remains clear at all times and by creating a port-hole effect, has a display interest of its own. Fitting position is at normal eye level. To cater for customers of varying heights three panels placed diagonally across the win-

dow are considered the most effective method of attracting results. The panels are in 10-in. diameter only. Patent has been applied for.

Self-contained Dispensary.—S. I. Myers, 229 Old Street, E.C.1, produce the "all-in-one" dispensary fixture illustrated. It can be supplied with or without sink and for right-hand or left-hand operation as required. The lower section has accommodation for bottles, an enclosed cupboard for winchesters, space below sink for mortars, two large cork drawers, and divided label drawer. Space is provided for register and wrapping paper. The remainder of the wall space is available for reserve stock. Copies of a leaflet describing the fixture are obtainable on request.

Adjustable Shelving Brackets.—Shelving equipment available from DOLLARAE SHOPFITTERS, LTD., 371 Eglinton Street, Glasgow, C.5, simplifies the placing of shelves at various heights. Brackets are fitted into sockets on H-column uprights without tools or screws. The brackets are available in lengths of 6, 9, 12 and 15 in.—A development in display equipment that is claimed to provide up to 30 per cent. more selling space has been introduced by HARRIS & SHELDON, LTD., 31 Stafford Street, Birmingham. Named Selphasta, it is "infinitely adaptable, instantly adjust-



All-in-one Dispensary Unit, shown with optional sink and tap (S. I. Myers).

able, and remarkably simple." The equipment, which is constructed in steel, with satin-finished chromium-plating, consists basically of slotted uprights and interlocking shelf brackets. The slots are spaced at 1-in. intervals permitting multi-level shelf adjustment. Lugs on the ends of the shelf bracket form a secure joint, which is, in fact, strengthened by the downward pressure on the shelves. Setting up an entire display is swift and simple; alteration of the layout is just as easily effected. The shelf brackets are made in different sizes and angles, with plain or lipped ends to allow fitting of glass or wooden shelves and wooden trays. They can be set horizontally or at two "easy-view" angles. Selphasta counter units, are specially designed to build-in with Selphasta square-section uprights, provide counter tops and cupboards. Square uprights are also used with tubular legs attached to form island units.

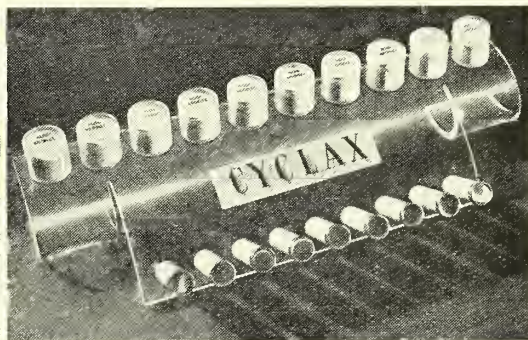
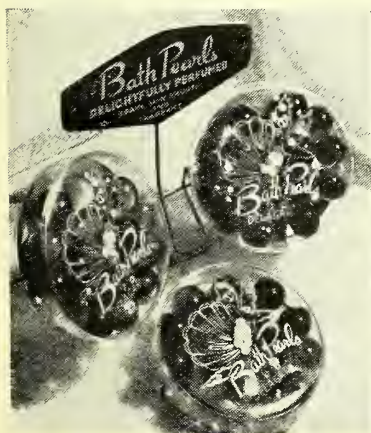


plate in leatherette is lettered in lime green Day-glo. Size of stand 8 x 10 in.; centre: For Chas. H. Phillips Chemical Co., Ltd., 179 Acton Vale, London, W.3. The wire is stove-enamelled white, and the name is silk-screened on to the pale blue background. Size of stand: 10 x 4 x 10½ in. Right: For Cyclax, Ltd., 65 South Molton Street, London, W.1. The powder and lipstick testing stand is in clear Perspex, with silk-screened nameplate. Size of stand: 2½ x 14 in.

DISPLAY STANDS IN WIRE AND PLASTICS: Examples of display stands designed and made by Victoria Plastics & Designs, Ltd., 559 Holloway Road, London, N.19. Left: For the bath "pearls" of Delagar (distributors: J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1. The name-

TRADE NOTES

Dispensing Pack.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced a 1,000-tablet pack of Suavitil tablets.

An Additional Size.—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, are marketing from May 5 a 2-oz. pack of the 0.5 per cent. concentration of Cortril topical ointment.

Agencies Open.—Lancôme, 14 Grosvenor Street, London, W.1, are appointing new agents and invite retailers' applications.

Hair-conditioning Cream.—Cleaver's hair vitaliser in polythene tube is a conditioning cream that imparts a sheen to the hair. The manufacturers are Eric C. Cleaver, Ltd., Nottingham.

Now Generally Available.—Medico-Biological Laboratories, Ltd., Cargreen Road, London, S.E.25, are now offering as a standard pack the jar of Antipeol ointment previously available only to hospitals.

Selling Agents.—The Vernon Porter Organisation, Warren Hill, Loughton, Essex, have been appointed direct-mail selling agents for the British Vacuum Flask Co., Ltd., 31 Alfred Place, London, W.C.1, makers of Freeheat vacuum ware.

Credits for Returns.—Chemists holding stocks of Hepamino or Hepovite in "mono" containers are invited to return them to the manufacturers, Evans Medical Supplies, Ltd., Speke, Liverpool, 19, for full credit. The present packs are printed lever-top tins.

Changes of Container.—Owing to purchase tax and high costs, the County Chemical Co., Ltd., Chemico Works, Shirley, Birmingham, have discontinued the 28-lb. pail of Chemico household, white and hand cleansers and are now issuing them in kegs.

Analgesic Cream.—Clay & Abraham (Mnfg.), Ltd., 2 Upper Duke Street, Liverpool, 1, are marketing under the name Radosene balm a new analgesic cream containing phenyl ethyl iodide for the treatment of neuro-muscular pain. The pack is a 2-oz. jar.

Catching Up With Demand.—Smith & Nephew, Ltd., Welwyn Garden City, Herts, have still further increased production of their Airstrip microporous waterproof Elastoplast dressings, which will soon be freely available without the "rationing" that has recently been necessary.

Reserpine Tablets.—Imperial Chemical (Pharmaceuticals) Ltd., Fulshaw Hall, Wilmslow, Manchester, have added to their range of specialities Reserpex tablets of reserpine. The tablets are available in two strengths (0.1 and 0.25 mgm), each in bottles of 100 and 500.

Makers of Mineral Acids.—Spencer, Chapman & Messel, Ltd., 45 Park Lane, London, W.1, manufacture sulphuric, hydrochloric and nitric acids and distilled water. The production of certain other chemicals was erroneously attributed to the company in a report on the British Industries Fair (C. & D., April 28, p. 315).

Metal Replaces Glass.—Calmic, Ltd., Crewe Hall, Crewe, Ches, have introduced a new aluminium pack to replace bottles for a number of their medical preparations. Apart from improved appearance, the new packs have advantages in storage, of resistance to damage, and of lightness. The repackaged products include Cerevon ferrous gluconate tablets; Ferromyn ferrous succinate tablets, and Hypon analgesic tablets.

Reformulated.—Cosmedin quick cleansing lotion, a product of the D.D.D. Co., Ltd., 94 Rickmansworth Road, Watford, Herts, has been reformulated to produce a product for removing the type of cream-powder make-up now so popular. It is available in two varieties: pink-tinted for dry, and yellow for oily complexions. Both contain a chamomile extract.



Changes of Name.—ALLEN & HANBURY, LTD., Bethnal Green, London, E.2, are marketing under the name Pirix the product formerly known as Pirton expectorant linctus. — THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10, are issuing under the registered trade name Collovet the product formerly marketed as Collotone (veterinary); no change has been made in the composition of the preparation or in its packs and prices.

Streptoduocin.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have made available streptoduocin Viules, each containing 2 mls of stabilised solution (equivalent to 0.5 gm. of streptomycin and 0.5 gm. of dihydrostreptomycin as sulphates). Streptoduocin is the name approved by the Pharmacopoeia Commission for an injection containing equal parts of streptomycin and dihydrostreptomycin. Messrs. Boots' product is issued in packs of six and 100 2-ml Viules.

"Security-sealed" Injection Bottle.—Britton, Malcolm & Co., Ltd., 38 Southwark Bridge Road, London, S.E.1, have improved the assembly of their Clinbritic multi-dose injection bottle by incorporating a security seal. The alkaline-free bottle (clear or amber), rubber cap, and Bakelite cap with faced wads are retained, but the "skirt" of the rubber cap is eliminated and in its place the rubber plug is held in position by an aluminium sealing ring, applied by means of a simple closing tool.

Distribution Arrangements Changed.—C. F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3, discontinued their distribution arrangements with Scott & Bowne, Ltd., on April 30. Since that date distribution of Dethmor warfarin products has been through all recognised wholesalers. A ready-mixed warfarin, Dethmor plus bait, has been introduced; the packings are 1-lb., 3-lb., and 7-lb. drums.

Bonus Offers

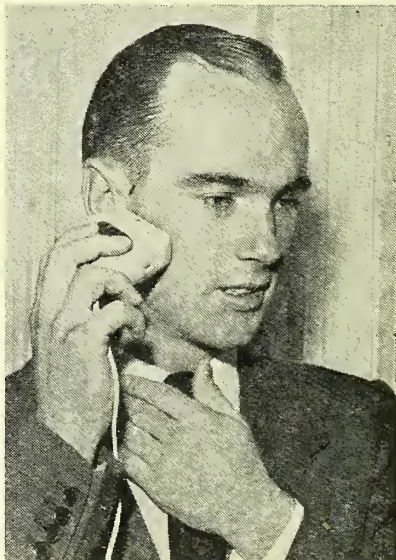
J. C. GAMBLES & Co., LTD., 209 Blackfriars Road, London, S.E.1. Odo-ro-no products. £4 orders invoiced at rate of twelve for price of eleven. 5 per cent. extra for display. During May.

EVER-READY RAZOR PRODUCTS, LTD., The Hyde, London, N.W.9. Three cartons Pal blue blades and two No. 26 Pal razor sets for 40s. plus 12s. tax; two cartons blades and one set for 26s. 8d. plus 8s. tax.

Exhibitions and Fairs

THE International Druggists' Trade Fair (Infrofa), Düsseldorf, Germany, October 7-14, is organised by *Verband Deutscher Drogisten*. Applications for space should be made to John E. Buck & Co., Ltd., 47 Brewer Street, London, W.1.

THE second international Instrument Show, Denison House, Victoria, London, S.W.1, May 7-18, will exhibit outstanding examples of instrumentation, especially precision measurement in the microwave, audio and chemical fields. Over forty companies are to be represented. Tickets are available from the organisers, B. & K. Laboratories, Ltd., 57 Union Street, London, S.E.1.



NEW SHAVERS FOR OLD: When the Australian test cricketers arrived in Britain on April 29, Remington Rand, Ltd., 26 Kensington High Street, London, W.8, were pleased to learn from them that they are still using Remington shavers presented to them during their tour in 1953. To keep them up to date each has now been given a Super-60 model. The picture shows Ian Craig, pharmacist member of the team, trying out his new shaver.

NEW PRODUCTS AND PACKS

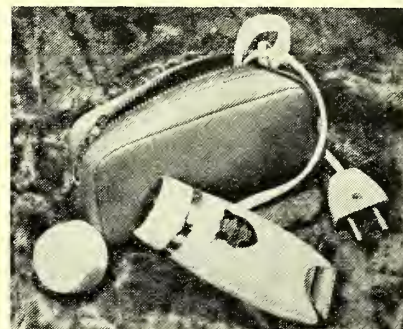
Relief of Tension.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have launched a new speciality, Nutinal tablets, each containing 1 mgm. of benactyzine hydrochloride, a drug that raises the threshold below which external sources of anxiety produce tension. Nutinal is indicated in the treatment of psychoneuroses especially when they are associated with anxiety, depression or obsessive-compulsive traits. Normal dosage is 1 to 3 mgm. three times daily. The tablets are issued in bottle of 100.

"Super" Whitener.—Dylon Super-White, a new powder which instantly whitens white nylon and woollen clothes when they become yellow and dingy, is added to the range of products marketed by Maybourn Products, Ltd., Dylon Works, Berryman's Lane, London, S.E.26. The powder is put out in a glass jar with bright blue plastic screwcap. Super-White combines optical and chemical whitening agents so that each enhances the good work of the others. It is equally effective with cotton and linen handkerchiefs and with bed and table linen. After being washed and rinsed, the clothes



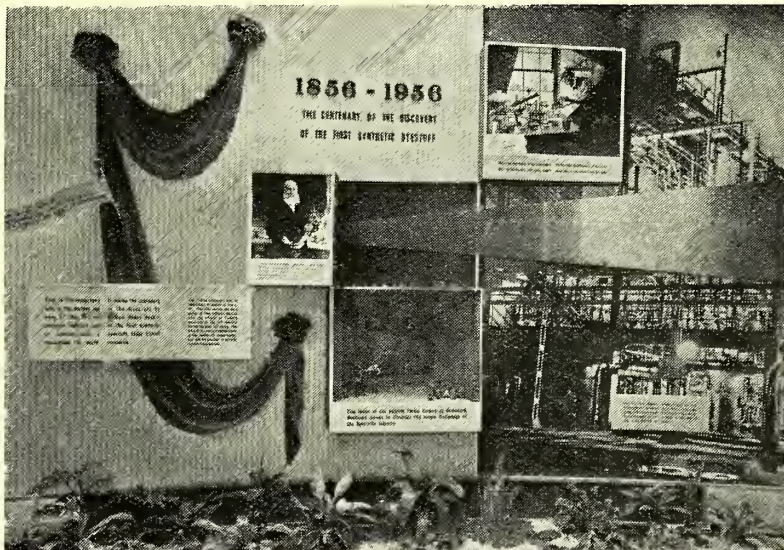
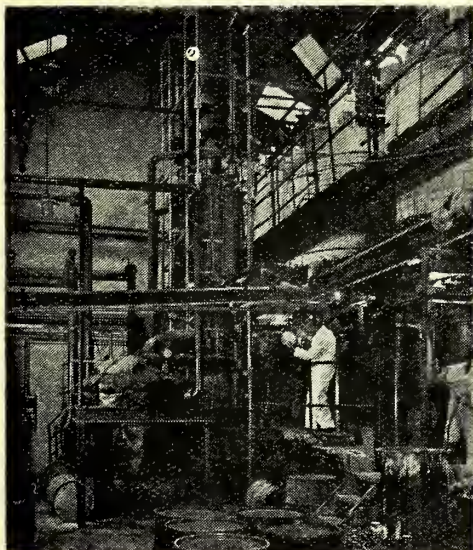
are steeped in a solution of Super-White and hot water (one teaspoon to a quart) for five or ten minutes. After the soak they are thoroughly rinsed. Wool requires a lukewarm solution and a longer soak. More than usually discoloured clothes can be safely steeped for some hours.

Stick Deodorant.—The new "instant" Odo-ro-no stick deodorant is "just like a giant lipstick." Unscrewing a cap presents the stick ready for use (no foil, no contamination of the fingers). The suppliers are J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1.

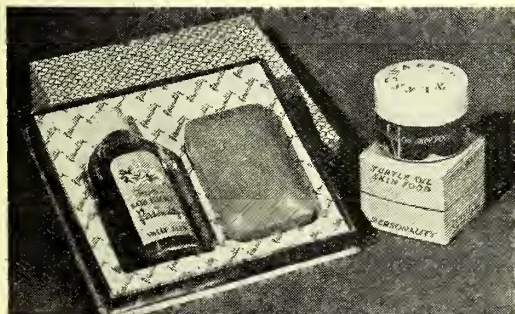


IMPROVED SHAVER: Improved version of Richard electric shaver, replacing all previous models. The new instrument, the Supershaver, has a larger head with protecting cap, and a zip-fastened hide pouch. The distributors are B. H. Ries, Ltd., 19 Hattton Garden, London, E.C.1.

SEEN AT THE BRITISH INDUSTRIES FAIR



Left: Photographic background to the stand of Cocker Chemical Co., Ltd., Oswaldtwistle, Lancs, showing plant for the manufacture of terpeneol, Right: Mural at the stand of the Association of British Chemical Manufacturers. The mural illustrates the life of Perkin, discoverer of mauveine. Inset in it is a model of Perkin's first coal-tar colour factory.



Left: Items in the range of products of Personality Beauty Products, Ltd., Ashby-de-la-Zouch, Leics, shown at the stand of the parent Fisons organisation. Recently introduced items in the series include bath essence and perfumed Cologne in carnation and sweet fern; after-shave Cologne; flower and sweet fern soaps. Right: Double-seal bottle for volatile liquids introduced by The British Drug Houses, Ltd. (laboratory chemicals group), Poole, Dorset, to provide maximum security against loss by evaporation in transit.

FIGURES IN THE PHARMACEUTICAL WORLD

At the Branch Representatives' meeting of the Pharmaceutical Society held during the London Conference in September 1953, Professor Harry Brindle was allotted the task of speaking on the academic approach to apprenticeship. A section of the audience, as was to be expected, made it clear that they did not agree with some of the views which were expressed by the speaker, and an outsider might have supposed that the Professor did not understand the problems of his audience (mainly retail chemists) or that he and they were out of sympathy with one another. Both conclusions would be wrong.

Professor Brindle's roots lie deep in retail pharmacy. His father, an uncle, brother and two cousins were all pharmacists. He himself served a retail apprenticeship in Bolton, and was an assistant for a time in the Blackpool pharmacy of W. C. Richardson (now Richardson & Lowe). How much he is held in personal esteem, even by some of those who protested at his policies, was proved when, at his retirement dinner on October 22, 1955, over 280, mainly pharmacists from his own county, attended to do him honour.

Both in the substance of his address, and in the manner of his giving it Professor Brindle revealed something else besides fearlessness. It was his ability to eliminate sentiment and forget nostalgia if they stood in the way of conclusions logically arrived at after rational study. Professor Brindle applies a scientific scepticism to his own thinking. It was not that he forgot or shunned old friends, but that his experience as a teacher compelled him to the view that an academic training has merits in training the student in pharmaceutical operations above any that can be claimed for an apprenticeship in the shop, although he believes the latter to be essential for many purposes.

Academically, he has had a career such as entitles him to be heard with the utmost respect on the subject of pharmaceutical education. As a student he won the Fairchild scholarship as well as many monthly and final prizes in the then popular and keenly contested analytical competitions conducted by *THE CHEMIST AND DRUGGIST* and the *Pharmaceutical Journal*. His teaching career began in 1911, when he became lecturer at the Manchester School of Pharmacy, one of the private-enterprise colleges that at that time flourished. Two years later he rose to become joint principal, but his career was interrupted by military service. In 1916 he enlisted as a private in the anti-gas section of the Royal Army Medical Corps. He was transferred to the Royal Engineers in 1917, promoted Sergeant, and later specially recommended for a commission by his pharmacist Commanding Officer, Lieutenant-Colonel E. F. Harrison. Stationed in London, he took the opportunity to study for and pass the Intermediate B.Sc. examination as an internal student. Only in 1921 was he to gain his degree—and as an external student, because post-war conditions had dictated his return to Manchester shortly after the Armistice.



38. PROFESSOR HARRY BRINDLE

Principal of the Manchester School of Pharmacy he remained until 1928, when the school was absorbed by the University of Manchester and he became lecturer in pharmaceutical chemistry. In 1946 he was promoted the first Professor of Pharmacy at the University—indeed the first and, until his retirement from the Chair in 1955, the only professor of pharmacy at an English provincial university.

Even that was not the height of his academic achievement, for in 1953 he was appointed Dean of the Faculty of Science of his University—a signal hon-

our indeed, for the faculty is the largest (1,400 students and a teaching staff of 250) in the largest provincial university in England. Throughout the years leading up to that honour he had made time, in spite of heavy teaching and administrative duties, to undertake researches culminating in the publication of some twenty-five scientific papers. The majority were solus contributions, a few the result of collaboration. He has found time, too, to act as an examiner to the Pharmaceutical Society during over thirty years, with periods also as examiner to the universities of

London, Glasgow, Wales, Nottingham and Belfast, and to the Pharmaceutical Society of Northern Ireland. He has been a member and deputy chairman of the Joint Formulary Committee through three issues of the National Formulary. He is also a member of the British Pharmaceutical Codex revision committee and of the galenicals subcommittee of the British Pharmacopoeia Commission. His national activities have not crowded out local interests. For eight years he was chairman of the Manchester, Salford and District Branch of the Pharmaceutical Society, and he has held office as president of the Manchester Pharmaceutical Association.

During his period as head of the department of pharmacy of Manchester University the department doubled in

size, and the intake of students for the degree in pharmacy increased by 500 per cent. It has gained in status as well as size. Professor Brindle was instrumental in promoting and piloting through the various administrative bodies the University's Honours degree in pharmacy, a degree with many unique features.

Professor Brindle holds strongly the belief that the best and broadest education for a pharmacy student is received in a university. There, the student mixes freely with colleagues in other faculties and can take a full part in the university's cultural, social and sporting activities. He hopes that eventually the path of entry in pharmacy for all entrants will be by way of a university degree (with opportunity to the

specialist to gain an Honours degree). As he is a co-opted member of the Education Committee, his views will certainly not go unheard, and indeed it is to be supposed that they will be firmly and lucidly advocated. If other members of the Committee can match him in that, members of the Society may be sure of debate on the very highest plane of the educational issues now under urgent consideration and fraught with either risks of decline or hopes of advancement for pharmacy as a vocation and profession.

His many friends will wish Professor Brindle long years of freedom to enjoy the research and committee work that will be the two principal pharmaceutical interests of his retirement from active teaching.

BRANCH AND ASSOCIATION MEETINGS

WATFORD AND ST. ALBANS

Talk on Paediatrics

At a meeting of the Watford and St. Albans Branch of the Pharmaceutical Society held at Hemel Hempstead recently, Dr. A. WHITE FRANKLIN (paediatrician to Queen Charlotte's and St. Bartholomew's Hospitals, London, and St. Albans City Hospital) spoke on "Modern Drugs in Paediatrics." Dr. Franklin stressed the danger to children of presenting potent drugs in the guise of sweets and said that action should be taken to stop that practice.

ISLE OF WIGHT

Liaison Between Members Vital

LIAISON between members of the Pharmaceutical Society by means of the Branches was vital to the Society's progress, said Mr. J. C. BLOOMFIELD (a member of the Society's Council) addressing members of the Isle of Wight Branch of the Society at Newport on April 25. Mr. Bloomfield said that in the long-delayed event of rebuilding its headquarters the Society was determined to remain, if not in Bloomsbury Square, then in the close neighbourhood. Concerning education, the latest recommendations were yet to be accepted but there was a distinct danger that too academic a system might result. The Society's finances needed a general overhaul, as the budget was barely balanced on the present retention and premises fees. The Benevolent Fund needed more support. The position of pharmacists *vis-à-vis* non-pharmacist contractors in the National Health Service had been improved by the recent ruling of the Health Ministry that the interpretation of the prescriber's intentions constituted dispensing.

ENFIELD

Poliomyelitis Vaccine Production

PRODUCTION of poliomyelitis vaccine was explained at a recent meeting of Enfield Chemists' Association by Mr. S. KEEBLE (virus research division, Glaxo Laboratories, Ltd.). He said that the virus was grown in a culture of monkey kidney tissue in a synthetic medium; the culture was filtered and the virus inactivated with formalin for twelve days. Tissue culture tests were made to determine the rate of inactivation, tubes

containing sheets of kidney cells being placed in rotating racks and housed in an incubator for five days. The tubes were examined under the microscope, disintegration of cells denoting the presence of active virus. After inactivation, batches of the three strains of vaccine were pumped into refrigerated stainless steel blending tanks where they were mixed. The final vaccine was tested by tissue culture and further safety tests applied. In one test, cortisone-treated monkeys were given intraspinal injections of the vaccine and observed for twenty-eight days, after which the animals were killed and their tissues examined histologically. In addition, the Medical Research Council carried out independent tests on each batch before issue. Mr. Keeble referred to the many stringent precautions taken with personnel and plant to avoid contamination of the vaccine at any stage of its manufacture. Replying to questions, Mr. Keeble said that paralysis often occurred within forty-eight hours of the onset of symptoms, so that preventive vaccination was the only valid method of control. The probable period of protection after immunisation was at least one year and would probably prove to be longer.

HOUNSLOW

Advances in Antibiotics

SPEAKING on advances in antibiotics at a recent meeting of Hounslow Branch of the Pharmaceutical Society, Dr. G. R. BOYES (head of the medical information department, Allen & Hanburys, Ltd.), said that actinomycin C, obtained from *Streptomyces chrysomallus* had some effect against implanted sarcoma in mice, but the results had been disappointing in clinical medicine. Anisomycin had proved to be active against fungi and *Endamoeba histolytica* in animal experiments and against *Trichomonas vaginalis*. Etamycin and viridogrisein were the same substance, but had been discovered in different laboratories; a basic substance used in the form of the hydrochloride, it was active against Gram-positive organisms and *M. tuberculosis*. Fungichromin, obtained from *Streptomyces cellulosae*, had been isolated from Texan soil, and was active against yeast, fungi and plant pathogens. Fungicidin (identical with Nystatin) was also an anti-

fungal substance; it was not active against bacteria, not absorbed when given by mouth. The substance was given to kill *Candida albicans* during treatment by broad-spectrum antibiotics. Oxamycin, another broad-spectrum antibiotic, was effective *in vitro* only in much larger concentrations than were needed for other broad-spectrum antibiotics. Its *in vivo* activity was greater than would be predicted from its *in vitro* activity. PA-105, obtained from *Streptomyces antibioticus*, was active against Gram-positive organisms, large viruses, rickettsiae and some protozoa. Spiramycin, obtained from *Streptomyces ambofaciens* isolated from soil in Northern France, had been found clinically effective against staphylococci resistant to other antibiotics, and had been described as a one-day cure for gonorrhoea. Its activity resembled that of erythromycin, but it differed in antibacterial activity. Dr. Boyes reviewed the work that had led to the characterisation and separation of the cephalosporins, one of which (cephalosporin N) was identical with synnematin B, and was probably aminocarboxybutyl penicillin or penicillin N. Cephalosporin C was also chemically related to penicillin, but was not destroyed by penicillinase; it had a low antibacterial activity, but in mice had been found to be effective against *Streptococcus pyogenes*. Azaserine was the first antibiotic to be described as possessing tumour-inhibiting activity. Cycloserine displayed low activity against *M. tuberculosis* in *in vitro* studies, and no activity in animal experiments, but was reported to have given unexpectedly good results in the treatment of tuberculosis in humans.

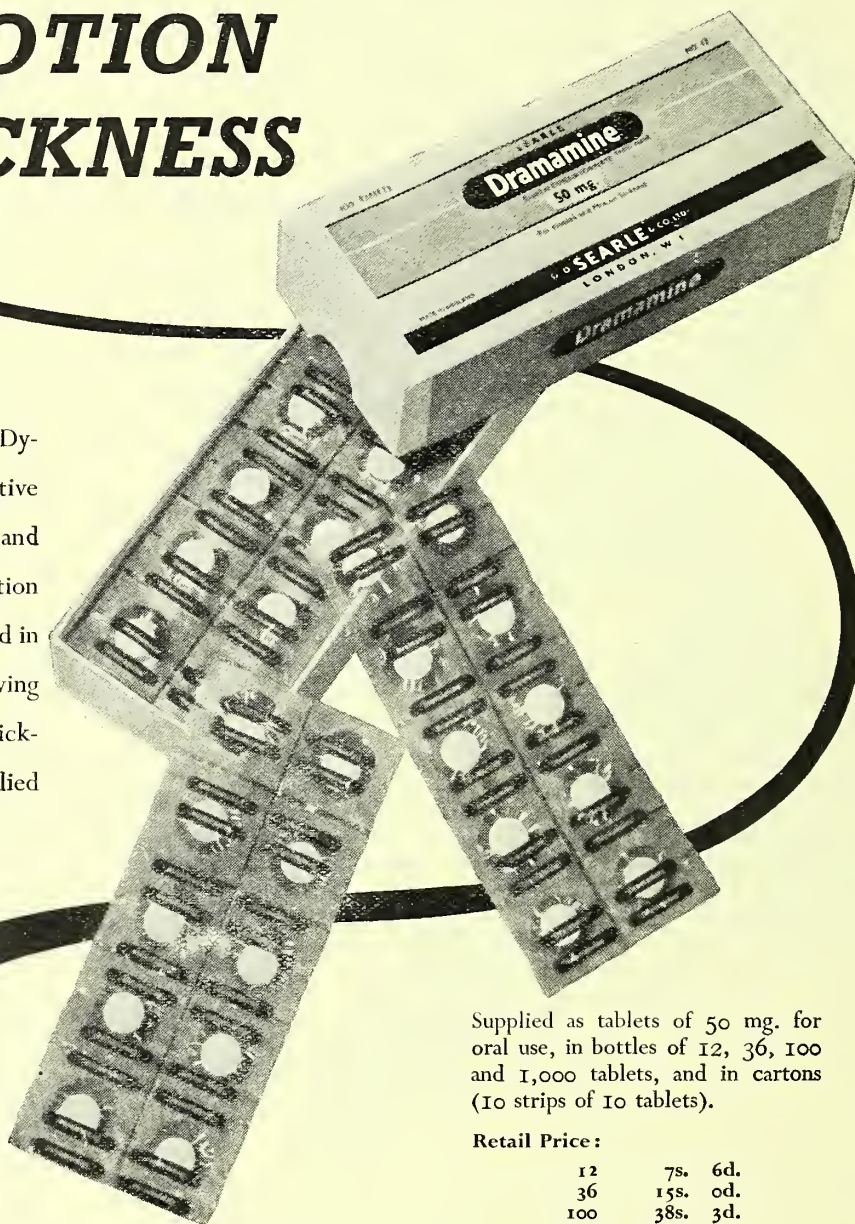
CROYDON

Pharmacist to King of Egypt

AN account of his experiences as pharmacist to King Fouad of Egypt was given to the Croydon Pharmacists' Association and Branch of the Pharmaceutical Society, at its meeting on April 20, by MAJOR E. TITTERINGTON, M.P.S., a member of the Branch. Major Titterington gave an account of his duties, which included, besides dispensing, drug testing, examination of water supplies, testing butter and milk samples, and other biochemical work.

Treatment or Prophylaxis of **MOTION SICKNESS**

"Dramamine", Brand of Dy-menhydrinate, is an effective non-toxic prophylactic and therapeutic agent for motion sickness. It is also indicated in nausea and vomiting following anaesthesia and in the sickness of pregnancy and allied conditions.



Supplied as tablets of 50 mg. for oral use, in bottles of 12, 36, 100 and 1,000 tablets, and in cartons (10 strips of 10 tablets).

Retail Price:

12	7s.	6d.
36	15s.	0d.
100	38s.	3d.
1000	360s.	0d.

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The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Landfall for Floating Voters

THERE may be "floating" voters who are in the dark, and all at sea, as to how to vote in the Pharmaceutical Society's Council election. Fourteen lifesavers compete for the honour of guiding them inshore and, from way out, one dark form may seem hardly more distinct than the next. To help any such we propose to throw up a few Very lights, or at least to wave one or two sparklers. The enlightened need read no further. For one thing they know what they want and who will give it to them. For another they have already voted!

Those apathetic others may find it hard to feel strongly for or against the policies sketchily outlined in our columns last week (pp. 319-21). Yet may they not discover a fascination—we did—in trying to read between the lines and behind the words? For example, Mr. Heseltine's solitary sentence says eloquently "I have been pretty well around the country telling everybody what I think. There is nothing I need to add." Mr. Hughes is similarly brief, and if there is, perhaps, a delicate nuance of difference between them it is that Mr. Hughes is "aiming to work for the betterment" while Mr. Heseltine is "continuing to work for the good" of pharmacy. Mr. Steinman gives double measure (two sentences), but in them reveals quite a bit more. His statement gives first place to the welfare of the individual. Thus, though he has undoubtedly, in his period of office as president, worked hard for the whole profession, his first love comes through, consciously or subconsciously: the individual (proprietor?) pharmacist. Any voter who regards the retailer's interest as paramount will also take due note that Mr. Farrer Barnes, another retail proprietor, wants every sort of encouragement—within the scope of the Charter—for the pharmacists' "greatest moral and economic asset": the tradesman's service in providing a wide range of goods. He will note that Mr. Wells would protect interests "especially retail." And he will note that Mr. Chamings—who manages a manufacturing business—would "strive for the enhancement of retail status." Mr. Stevens, who is also on the manufacturing side, possibly gives a different emphasis to "individual" in devoting himself to that person's "professional and commercial welfare." He certainly advocates full use of the statutory position of Society on economic matters—a policy which, though he rejects interference with the National Pharmaceutical Union, is probably more than many N.P.U. members would wholeheartedly espouse. Mr. Park, equally keen on enhancing professional status,

makes no mention of the commercial. As a Scot and a retailer he may be presumed to have an interest in such matters, but possibly he prefers to keep them, as at present, within the province of other bodies than the Council of the Society. Those members who, with Mr. Park, attach first importance to professional status and duties should note also Miss Islip's call for high standards of accommodation, equipment, staffing and service; and Mr. Brocklehurst's aim to strengthen still further the Statement upon Matters of Professional Conduct.

Status being closely bound up with education, our floating voter should be careful not to cancel out a vote for the idealist with a vote for the realist. Miss Islip would gear education to medical progress, but Miss Burr's is a "realistic and practical approach." Mr. Park would "adequately equip for duties," but Mr. Booth would "ensure that training is related to the positions to be held." Mr. Farrer Barnes notes discrepancies in the quality of educational facilities according to locality, and would aim to make them more uniform. Mr. Chamings would no doubt be surprised to find himself logically in the same camp as Mr. Wells. Where Mr. Wells deplores the present-day preoccupation with degree courses, Mr. Chamings would have technical colleges play the part at present enacted by the schools of pharmacy ("allowing the student to work up to the level of the Society's important diplomas through technical colleges").

To judge by the few proprietor pharmacists who take on apprentices, they are as a class genuinely apathetic towards apprenticeship. Yet Mr. Farrer Barnes seeks to win votes for an apprentice-recruiting campaign, while Mr. Chamings would do retailers' status a good turn by making apprentices' training "more realistic." Much turns, of course, on what one means by realism (more work with the duster?) and by status (gleaming shop rounds?). Mr. Neville Booth would "equate intake with demand," which—unless our Very light has cast the wrong colour on Mr. Booth's intention—suggests the reverse of recruiting. Staunch advocates of apprenticeship-before-qualifying are Mr. Holland and Mr. Wells. In equally strong opposition to registration of unqualified dispensers Mr. Holland has as partners Messrs. Stevens and Chamings. The last-named clearly believes in doing good to all, for he would give hospital pharmacists "full responsibility for *all matters relating to purchase and handling of drugs*" [our italics] and that is more than many hospital pharmacists nowadays claim for themselves. Miss Hincks does not refer to specific issues, but shows an engaging optimism and stoicism towards the future.

This sort of "What's My Line?" game, it will be seen, can elicit fascinating clues that reveal the intentions and possible actions of the elected. We must, however, leave our "floating voters" to swim the last few strokes unaided.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

ANTISLINE	PROVEEN tablets
CARRUGAN	PEPTOBISMALOL
COLRUB	LICTIN
	COMPRA VENA hosiery
	ALTIPEN tabs.
	LE NEGRI tooth-picks

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

AT a meeting of the Council of the Pharmaceutical Society of Northern Ireland held in Belfast on April 20, the president (Mr. S. E. Campbell) in the chair, THE SECRETARY (Mr. William Gorman) tabled a letter from the secretary of the Society of Pharmaceutical Students, thanking the Council for their gift of £20 towards the expenses of the students' Easter tour of manufacturing houses in the London area. On the motion of MR. H. W. GAMBLE, O.B.E., seconded by MR. W. P. EWART, the Council agreed to the restoration of the name of Thomas James Lemon, Bulawayo, to the Register. THE SECRETARY tabled an application from a member enclosing his certificate of registration which had become damaged and asking to have it replaced. The Council agreed to its replacement at a charge of 5s. Mr. Gorman also reported that he had received a cheque for £3 3s. from the Northern Ireland Optical Society. The Council decided that that should be devoted to the Chemists' Benevolent Fund.

Education Regulations

Referring to the education regulations which have been planned by the Council (see *C. & D.*, March 17, p. 195), Mr. Gorman said that in January the Council had circularised technical schools informing them that from September 1, the Part I course would be full time. The Ministry of Home Affairs had since been in touch with the Ministry of Education on that matter and during the week he [Mr. Gorman] had met representatives of both Ministries. They had made the point that in the case of some technical schools it would be impossible for them to give that full-time course within two years. Mr. Gorman said that he had suggested that in the meantime the Council should complete the regulations and pass them to the Ministry of Home Affairs. A meeting could then take place between representatives of both Ministries and the Council to discuss them.

The Ministry of Education representative had suggested that in view of the difficulties which the technical schools were experiencing with the full-time course, it might be possible to utilise some of the grammar schools which were teaching physics, chemistry, botany and zoology. That would allow students unable to get facilities in technical colleges to do the course in grammar schools. The Ministry thought that perhaps the Council might recognise that as a temporary measure. The Ministry spokesman had also suggested that it might be an advantage if the Council would grant exemption from Part I to students with the senior certificate examination at advanced level in physics, chemistry and biology.

MR. W. P. EWART said that it was the tendency now to keep students at a grammar school after getting their senior certificates. Headmasters were encouraging them to stay at school for the extra year and if those schools taught chemistry, physics, etc., at advanced level, it would be as good an examination as the Society's Part I. MR. GORMAN said that every student could not go through a grammar school. MR. EWART said that there were very few schools in Northern Ireland teaching those subjects at advanced level. A full-time course would need at least twelve students in a technical school and three teachers. There would be better students from the grammar schools.

MR. W. H. BOYD said there were very few grammar schools teaching the subjects required in the examinations. There was little purpose in discussing the Ministry's suggestions until the Ministry made known to the Council the location of the grammar schools which could be used. MR. S. E. CAMPBELL said the main trouble was the extreme difficulty some of the schools experienced in getting teachers. With a full-time course, technical schools would have great difficulty in getting sufficient teachers. MR. J. MCGREGOR

suggested that the Council should have talks with the Ministry officials before any further decisions were taken.

On the suggestion of THE VICE-PRESIDENT (Mr. C. A. Quinn) the Council agreed to proceed with the regulations as planned and that any necessary changes could be re-submitted to the Ministry for its approval.

The report of the House Committee showed that two tenders had been received for painting the stairways and assembly hall of the Society's house. The Council, on the motion of MR. F. R. MOORE, seconded by MR. EWART, accepted a tender of £76 15s. The report of the Finance Committee was adopted on the motion of MR. G. E. MCILHAGGER, seconded by MR. H. F. MOORE.

MR. CAMPBELL said that he had had talks with local pharmacists about the visit to Londonderry and it was agreed that May 24 would be suitable for the holding of the next Council meeting there.

Onward from Galen

A CURRENT CAUSERIE

MOST London tube passengers have noticed a sudden discomfort in the ears caused by a sudden change of air pressure when the train enters a tunnel downhill and at speed (for example, where the Northern Line plunges underground just south of East Finchley station). Some have discovered empirically the remedy—to swallow, thus equalising the pressure on each side of the tympanic membranes. In answer to a correspondent, the *British Medical Journal* (March 31, p. 759) has explained just how the phenomenon occurs. The reaction takes place where there is a ventilation shaft to release in much the same way as gases are released in front of a piston in a cylinder, air that has been pushed in front of the train. The feeling experienced in the ears by passengers is caused when the train, travelling at speed, passes the relief shaft and meets a mass of comparatively stationary air, which, until it has been accelerated to the speed of the train, is momentarily compressed. The small increase in pressure may cause discomfort in the ears of the passengers in the leading cars. It is usually experienced only on the southbound trains because they are travelling downhill, and consequently rather faster than northbound trains. Thus even the topography of the Tube and the vagaries of ventilation shafts can have medical repercussions.

THE IRONY OF IT, 2



MIDSUMMER: "Can I interest you in hot-water bottles?"

Sketch by VEL

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Children—and Dangerous Drugs

SIR,—How many pharmacists in retail practice share my view that parents should not send children to collect packages containing Dangerous Drugs and S.4 products? Publicans may not give strong drink to youngsters—the law prohibits it. Tobacconists should not sell “smokes” to juveniles. So why are we allowed to hand Dangerous Drugs over to quite small children? In every previous stage of handling a Dangerous Drug a careful check is kept, yet the most dangerous drug may be passed over our counters to a quite young child.

Chilwell R. G. DAVIES-JOHN

Pharmacy's Public Relations

SIR,—The principal publicity pharmacy gets in the national Press is when a member of the Pharmaceutical Society is prosecuted for law-breaking, or some other detrimental statements such as: “Chemist Makes Mistake,” “Dangerous Drugs on Dust-heap,” “Codeine Tablets Useless.” Our medical friends feature “Family Doctor,” Dr. Good-enough, Mrs. Never-well, and many medical columns in magazines, plus a great deal of publicity on television and in cinemas (“Doctor at Sea,” “Is There a Doctor in the House?” “Doctor Does Rugby Dive,” “Doctor Goes Down Mine,” “Doctor Flies in Helicopter,” etc.). Is pharmacy such a humdrum, colourless calling that it has nothing to offer in its relationship to public health? Or is it more ethical to hide one's light behind a high counter?

STENTOR

Council Election

SIR,—The Aberdeen and North-eastern Scottish Branch of the Pharmaceutical Society and the Aberdeen Pharmaceutical Association join in publicly supporting the candidature of Mr. William A. Park in the Council election. Mr. Park is an enthusiastic office-bearer in both organisations, has served for many years locally, and is now chairman of the Executive of the Scottish Department of the Society. We have no hesitation in asking for wide support for Mr. Park, knowing well that he will never let pharmacy down. On the contrary, we feel sure that he will add considerably to pharmaceutical status in the future years.

WALTER C. D. BAIN,

Association president

ROBERT J. COWIE,

Branch chairman

Aberdeen

SIR,—Along with every other member of the Pharmaceutical Society, I have recently received the biographical details of members offering themselves for election to the Council. Of what a formidable list of committees some of them are able to boast membership, and even chairmanship! Is it possible to fit in all those committees and then take on membership of the Council also, giving each the time and thought that

the appointment warrants and also keeping one's finger on the pulse of the day-to-day requirements of a retail pharmacy? If so, then most of those committees are superfluous and could be done away with. Would it not be a good thing for pharmacy if the average age of Council members was under forty? Experience counts, I recognise, but what we now need is *modern* experience. Pharmacy is developing so rapidly that anyone who qualified before, say, 1930, is so far behind that they are not even talking the same language as those who have qualified since that date.

London, S.W.1 H. G. P. SMITH

Price-cutting Evils

SIR,—As a pharmacist with vivid recollections of the chaos and iniquity of unrestricted price-cutting, I urge all sections of pharmacy to maintain the strongest possible objection to the Bill now before Parliament. When my apprenticeship commenced in January 1914, the Proprietary Articles Trade Association was just at the commencement of its fight for price maintenance. The wholesale price of Beechams pills was 9s. per doz. plus 1s. 6d. per doz. stamp duty, and the retail price was supposed to be 1s. 1½d. The multiples and other price cutters, however, charged 10½d., 10d. or even 9½d. per box. Dr. Williams' “pink pills for pale people” which, if my recollection is correct, should have retailed at 3s., were offered over the counter at 2s. 2½d., or even 2s. 1½d., and all other proprietaries in any substantial demand were similarly cut to the bare cost price, sometimes to even less. Out of that iniquity were born many evils, of which possibly the following were the worst:—

(1) Substitution was rampant. When there was no profit—perhaps even a loss, in selling advertised proprietaries, there was obviously every inducement to the proprietor and his assistants to use every fair or unfair argument to induce the customer to buy one of his own products, on which he did make a profit. In fact, part of the remuneration of assistants depended on their success in the matter of that substitution, and any assistant who would not lend himself to such an objectionable practice found himself out of a job.

(2) The original impetus of the expansion of multiples was founded on price-cutting. No doubt they had little option in the matter, but their stronger resources and the wider range of merchandise they were able to carry operated to their great advantage, and will do so again if the Restrictive Practices Bill becomes law.

(3) Many hundreds of proprietors, despairing of those lamentable conditions, gave up the struggle and sold out to the multiples.

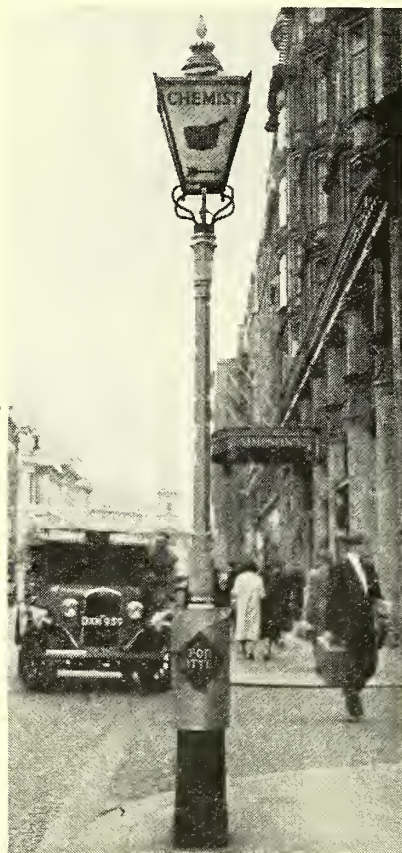
There is another consideration which is worth some emphasis. During recent years there has been an increasing tendency for retail proprietors to ask for discounts from their wholesaler,

and to transfer their allegiance to any wholesaler who would subscribe to price-cutting in the form of extra discounts. It has been my curious experience to listen sympathetically to a retailer complaining bitterly about price cutting in the next street, while at the same time advising me that he could no longer order various items from my company because he had been offered additional discounts elsewhere. Surely there is no difference, in principle, between a wholesaler who cuts prices to the retail, and a retailer who cuts prices to the public. The established retail and wholesale margins are little enough to meet continuously increasing expenses—in fact there are many who believe that the increased labour and rating costs of the retailer and the increased labour and distribution costs of the wholesaler, call for some increase on existing margins. Now is the time when all sections of distributive pharmacy should be more strongly than ever united in support of price maintenance.

S. S. HOWARD, M.P.S.

Chairman and managing director,
Brighton, 1 K. A. THIEL, LTD.

A PHARMACIST'S SIGN



1. The lamp-post that points the way to the Savoy Hotel, London, branch of Savory & Moore, Ltd. “Peterborough” in the *Daily Telegraph* recently commented that it is one of three “private” lamp-posts in the Strand.

In the past there have been a number of efforts to organise employees in pharmacy to something like the extent that other sections, notably the proprietors, are combined for effective action. The writer of the article that follows argues that membership trends within the Pharmaceutical Society and outside influences on the practice of pharmacy make it more than ever necessary that employees should make their voices heard as a contribution to wise and united action by the profession in times that are likely to be full of problems.

EMPLOYEES AND TODAY'S PROBLEMS

By H. LONG

ALTHOUGH the Pharmaceutical Society of Great Britain was born of, was built and grew steadily upon, retailing, and although it now derives an overwhelmingly high proportion of its income from that activity, there has been, throughout its history, an urge to academic exaltation that was clearly aimed at higher things. A clue to the train of thought may be found, perhaps, in the headings of those columns, appearing week by week, which indicate that one takes a "situation" in retail, but an "appointment" in the hospital world. It is a subtle distinction, which may be regarded with mild amusement or profound irritation according to one's temperament.

Even within the retail field there are distinctions. From time to time one hears, despite the existence of corporate bodies, views on the retail practice of pharmacy which suggest, in one way or another, that individual proprietorship is the most desirable field, and even the only field in which the pharmacist can attain those standards of professional and personal service that should be his ideal. Whatever may be members' individual views on that attitude, cold fact intervenes to point out that the Society has a considerable body of members who are non-proprietors. The evidences are, moreover, that in the future their total is much more likely to increase than to diminish.

Considering the numbers involved, the employed members have had singularly little influence in the conduct of the affairs of the Society. That is due in the main to lack of cohesion—often translated, in today's pet diagnosis, into "individual apathy." It is much in the interest of the whole profession that some effort should be made to remedy that position. In the twenty years from 1910 to 1930 the number of pharmacists increased by nearly 50 per cent. (7,000 to 16,000). Between 1930 and 1950 the increase was 11 per cent. It comes to mind, of course, that the first of those periods was also the "growing-up" stage of corporate-body operations in retail pharmacy. The possible relationship of those factors with one another is a study in itself. The immediate concern of the writer is with the present and the future.

The official estimates of man-power distribution in 1955 indicate that retail pharmacy has 9,000 "owners" and 10,700 "managers and assistants." Under the conditions of fifty years ago it could confidently have been said of the latter group that at least half, probably three-quarters, had a firm intention to become proprietors, as well as a reasonable prospect of doing so. Of the same group under today's conditions, it would be optimistic to expect that more than a third have any real chance of proprietorship. Under the classification of "managers," there are, no doubt, a number of people who are conducting "family" companies, and who should therefore be more properly considered as "owners." Allowing for those, there remains a substantial body of employed pharmacists which, at between 5,000 and 6,000, constitutes the second largest group (in occupational classifications) of the whole Society.

It is a weakness of statistics that they rarely "stick." The conclusions to which they lead are not readily apparent. If, instead of "mass" figures, it is stated that for every two owners there is one branch manager, the subject is brought down to easily understood terms. The two groups have a

community of interest much deeper than the obvious one of common membership of the Society. No great gift of prescience is needed to forecast possible developments that will need the united attention, not only of pharmacists in retail, but in certain aspects of all members of the Society. Pharmacy will be on the defensive in a real sense.

Between 1940 and 1950 the total number of pharmacists (of all categories) increased by rather less than 1,000. In the same period the number of registered premises increased by well over 4,000. Even allowing for the temporary war-time closings, which influenced the 1940 figure, it is glaringly apparent that available man-power has been perilously thinned out. Authoritative comment on that position has been to the effect that the matter is not so much one of "too few pharmacists," but rather of chaotic distribution of those available. Bluntly . . . "Too many shops."

Most people recognise that something must be done about maldistribution of pharmacists. But do many pharmacists realise that, if they decline to take a hand, the "something" is much more likely to be done *to* them, than *for* them? In the post-war years the combined efforts of the planners and speculators have produced conditions which, by sheer economic force, make retail distribution almost an exact science and certainly an exacting occupation.

Although the necessary finance, and the specialist services, may be available, on terms, to the "private" man, they cannot in the nature of things be available to him on the same scale, or backed by the same resources, as to the corporate bodies. The tendency for those bodies to increase, while private undertakings diminish, is bound to continue.

Likely Developments

Whether as owner or manager, therefore, the pharmacist needs to take a careful look at the developments to be anticipated. What are they likely to be? Currently much is heard of potential action against monopolies and restrictive practices. In the sphere of pharmacists the Proprietary Articles Trade Association and Chemists Federation are two ready-made targets that appear attractive to politicians who may be "on the warpath."

Political history indicates that, when any administration contemplates action likely to affect adversely the interests of a section of the community, the speed and weight of that action tends to be determined by 1, the weight behind the call for such action; 2, the resistance-potential of the affected group; and 3, the possibility of undesirable consequences—in the last analysis electorally—upon the administration concerned. Those considerations alone are sufficient to warrant a call for a "united front" in retail pharmacy.

Another prospect is a revival of the idea of licensing pharmacies, with limitations on the opening of new ones. Let there be no "I am in the boat . . . John" attitude. Once establish control of that kind and it would be an easy step to reducing the number of pharmacies by declaring some of them redundant. Superficially, there is an attractive picture of one large central pharmacy in each area replacing, say, five or six now in a district, so as to give bigger, better, and longer service to the community and to absorb the pharmacists from the smaller separate units. The weakness of that policy, of course, as of most "planning" today, is that the

inconvenience to the general public (longer distances, longer waiting time, etc.) tends to be overlooked.

There is a real danger, too, from another direction. Commercial interests constantly seek to whittle down the range of commodities restricted to pharmacist-controlled premises. Public opinion would almost certainly resist the elimination of some pharmacies as they know and use them now. They may well be inveigled into accepting the elimination as redundant of "pure" pharmacies. It is generally accepted that the advocates of licensing are thinking in terms of pure pharmacy. They may be playing into the hands of commercial interests.

Within pharmacy there has been stoutly laid down the claim that only pharmacists shall be recognised as responsible for dispensing. The other side of the picture may not be so attractive: to face an attempt to lay down that pharmacists should be responsible for dispensing only?

In trying to arrive at a solution to some of the more outstanding problems of the near future, members of the Society will get nowhere unless each individual decides to take what part he can. There exists already an efficient organisation for the proprietor pharmacist: the National Pharmaceutical Union. For employed pharmacists the organisation of a parallel protective body rests entirely with themselves. It ought not to be necessary to contemplate setting up yet another organisation, since the existing Registered Pharmacists' Union could be adapted to the task ahead. It may be that it is in that direction that interested employees should look if they decide to take a hand. Apart from the value of a united front to the "outside," there are interesting possibilities domestically. Employees might even begin to see more evidence, once they became adequately organised, of the working of the old adage "The man who pays the piper calls the tune."

Cardiac glycosides in the liliaceous plant STAR OF BETHLEHEM

BY PETER COOPER, F.P.S.

IT has long been known that the liliaceous plant Star of Bethlehem (*Ornithogalum umbellatum*), like its close relatives the squills, contains glycosidal constituents which act upon heart muscle. The plant, which flowers in spring, is not indigenous to Great Britain, but has become well established in gardens. Though it is probably quite as toxic as the squills, no reports seem to be extant of accidental poisoning from it. So far, no detailed work has been done to establish the chemical constituents of the Star of Bethlehem. A number of investigations into the pharmacology and possible clinical usefulness of the dried and standardised bulb are, however, proceeding.

Waud (1951) discovered during animal trials that the bulb of this plant exerted a digitalis-like action. On frog heart, both isolated and intact, on isolated rabbit heart, and on intact cat heart the preparation was positively inotropic—that is, it increased the muscular contractions of the heart, decreased conduction in the heart muscle, and in overdose finally stopped the heart in systole.

Following those investigations, tablets of the dried bulb were prepared and standardised by the method of U.S.P. XIII, so that one tablet was equivalent to one international unit of digitalis leaf. Some trials were done with the tablets on staff patients in hospitals, but the results (unpublished) appear to have established no clinical value for the drug. Waud (1954) showed that extractives of the bulb could nevertheless be prepared which, by the cat method of assay, had nearly twice the potency of digitalis leaf.

Coating Found Necessary

Vogelsang (1955) attempted to substitute ornithogalum tablets for digitalis tablets in selected patients, but found that the digitalisation was lost, while the heart-rate, fluid retention and dyspnoea increased. That finding was at variance with results obtained by perfusion or injection of extracts in animals, and it was evident that ornithogalum, taken orally, was either not regularly absorbed from the stomach or else was decomposed there. Vogelsang therefore resorted to salol-coated tablets for enteric absorption, and found that the expected digitalis effect was produced when they were administered to selected decompensated patients. The tablets were given to patients who had been undergoing treatment for some time and who had been stabilised on digitoxin tablets; any other drugs, such as mercurial diuretics or ammonium chloride, were retained in the treatment, and it was discovered that twice the dosage, calculated as international units of digitalis, was necessary when ornithogalum was used, to produce the same effect. It may be concluded that only about one half of the new drug is absorbed from enteric-coated tablets.

There are interesting clinical differences between the activities of ornithogalum and digitoxin. The new drug produces less slowing of the heart rate and less irritation of the gastro-intestinal tract, and is therefore less nauseating in high dosage; at the same time it produces a greater increase in the kidney excretion of fluid, and has a more pronounced effect on the strength of cardiac contractions. The fact that ornithogalum lowers the blood-pressure of normal individuals suggests that the fluid output may be increased by reason of the improvement of the general circulation rather than by any specific effect of the drug on the renal glomeruli.

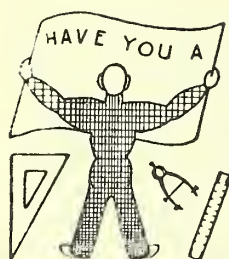
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Waud, *ibid.*, 1954, **111**, 147.
Vogelsang, *Canad. med. Ass. J.*, 1955, **73**, 295.

BRITISH FINE CHEMICALS AND THEIR USES

55. AMMONIUM PERSULPHATE

AMMONIUM persulphate is usually supplied pure. There is virtually no traffic in a coarser commercial grade. The salt is prepared by a variety of electrolytic methods, usually with ammonium sulphate as the raw material. Production methods have been the subject of a large number of patent specifications. Ammonium persulphate is the only persulphate prepared on the large-scale direct, serving as raw material for producing the sodium and potassium salts. The sodium salt has limited medicinal applications as an oxidising agent and disinfectant. The potassium compound is the persulphate of choice in the fusion and oxidation of ores of copper, chromium, iron, cadmium, and manganese. Potassium persulphate also is used for converting alcohol into aldehyde, for liberating iodine from potassium iodide, and for directly obtaining chlorine from hydrochloric acid. The ammonium salt is utilised for bleaching purposes in the textile trades, and for precipitating colour bases. In dyeing it has a destructive action on cotton unless suitable precautions are taken. It has been used in photography in processes of intensification and reduction for removing pyrogallol acid stains on the fingers, and as hyposulphite eliminator. It is used as a depolariser in batteries, and as a general oxidising agent. In oil refining, it is put to bleaching and deodorising uses, and before anodising processes came in was used for oxidising copper surfaces. As a preservative, it is used for washing infected yeast, and was tried out in place of hydrogen peroxide in the cosmetic industry. In the making of synthetic rubbers it enters into emulsion polymerisation processes. In the laboratories of steel works it is used as a reagent in manganese and cobalt determinations, and for the precipitation of nickel, copper, silver, lead, etc. Both ammonium and potassium salts are used in rare-metal analyses. Solutions of ammonium persulphate are decomposed by hot water with the evolution of oxygen.



SHOPFITTING PROBLEM?

WRITE TO
JAMES GRIMM

I have purchased a site 27 ft. 6 in. by 40 ft. 6 in. for the purpose of erecting a pharmacy with gifts and photographic departments. I want to get as much space in the shop as possible as, in the summer season, when the visitors arrive floor space is of the utmost importance. I enclose a sketch of what I have in mind, and would be glad to have your comments. I propose to use for heating, 1½-kilowatt convector fires. Would four be sufficient for a shop of this size, or would you advise gas convector fires? I also intend having a tiled fascia and sides with superimposed chrome and red block letters. There is to be no neon on the outside of the shop, but I want a neon hanging sign at an angle from the ceiling over each showcase counter to denote the department: Dispensary; photographic; perfumery; leatherware; cutlery; fancy goods. I am not making any provision for a sun blind, as there is little sun on my side of the street.

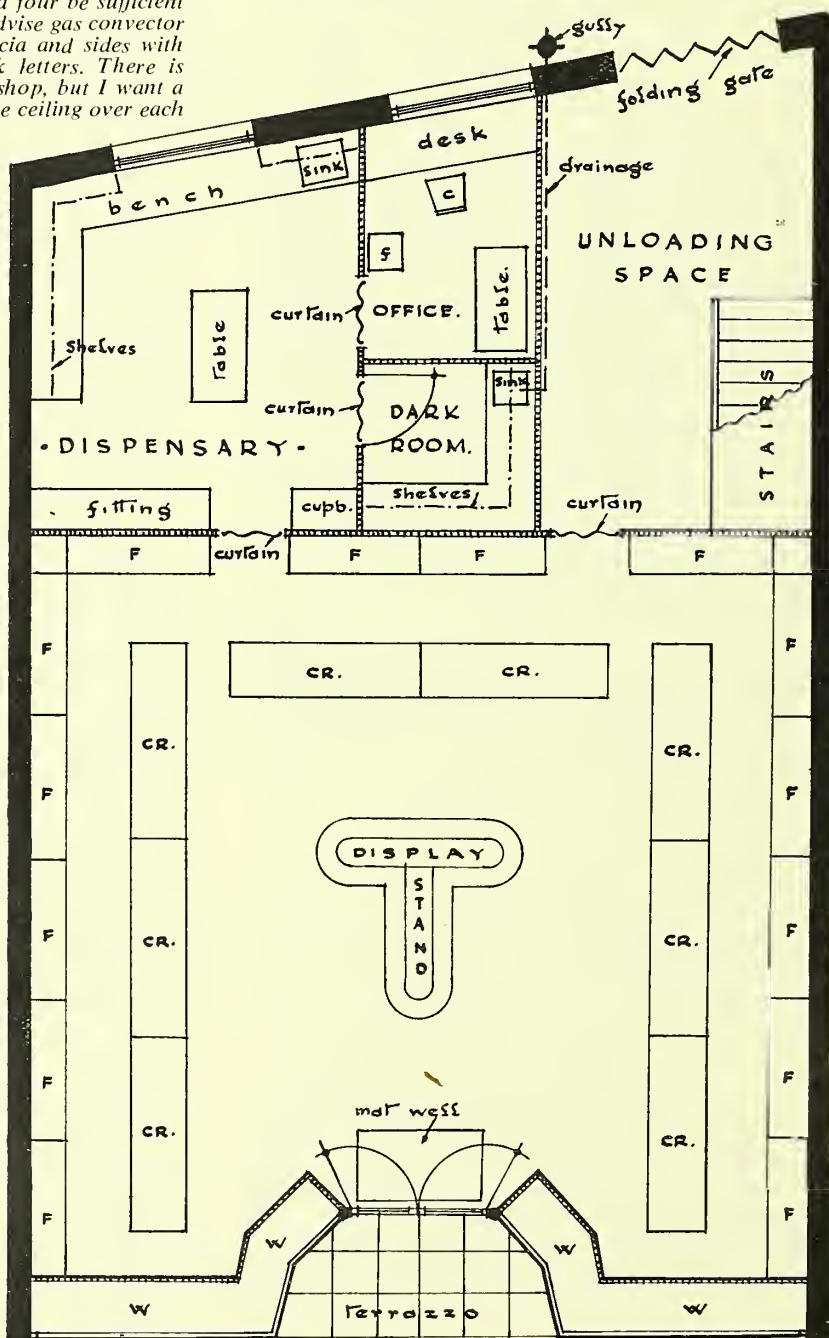
WHILE you give the overall dimensions on your sketch, the exact position of the rear windows or the stairs is not indicated. On my plan they have been placed in what I guessed their positions to be. In your rough sketch, too, the dark room has been placed under the stairs, which is not happy. And your dispensary is brought forward on the right-hand wall, thus forming an awkward area biting into what, I think, could be more advantageously used as selling space.

SHOPFRONT. Your proposed tiled fascia, pilasters and fascia lettering treatment are all quite suitable but I have slightly altered the shape of the entrance lobby. The depth back to the doors is 4 ft. 6 in., and the width at the widest point 10 ft. Both external and internal glazing joints would be of clip-glazing to give maximum visibility. The windows are continuous, but could, of course, be divided into sections with internal divisions to give the compact and intimate displays sometimes required. The back-to-front depth of the windows is 2 ft. Access would be by either hinged or sliding doors, either solid wood or semi-obscured glass according to preference. The double entrance doors could be either wood-framed or of armour-plate. A mat well is also indicated.

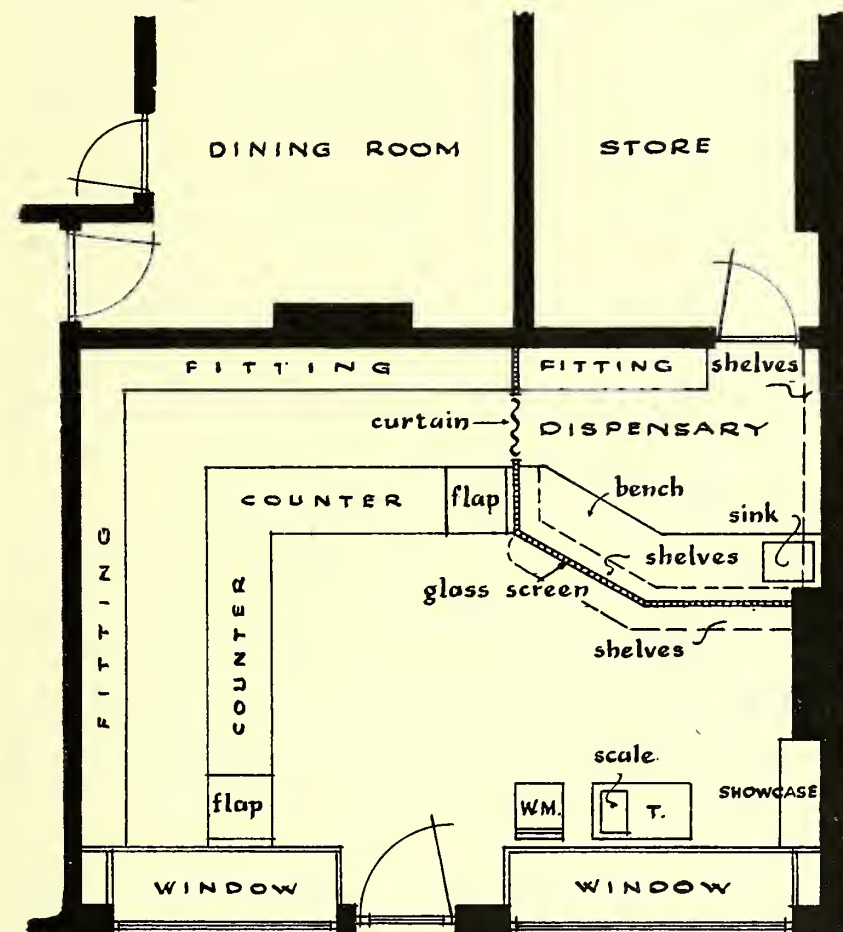
DISPENSARY. The dispensary is 12 ft. wide at its narrowest point and 14 ft. at its widest, owing to the rake of the rear wall. It is divided off from the shop proper by a floor-to-ceiling screen having a curtained entrance as shown. On the inside face of the screen there is an open-locker fitting and on the opposite side of the curtained entrance a cupboard unit. The other two walls (left-hand and window walls) are fitted with a dispensing bench having an end sink and shelves above. There is also a central table. Leading off from the dispensary are an office and a dark room. The

office has a desk below the window to ensure a good working light, a filing cabinet on the left, and a corner table. Entrance is through a curtained opening. The dark room has a working bench on two sides with shelves above. There is a corner sink, the drainage and water feeds for which would run on the face of the unloading space screen. The entrance to the dark room would have either a special curtain or a door. If the plumbing offers difficulties the positions of the office and the dark room could be reversed. That would necessitate painting out or masking the window, and would call for artificial light in the re-positioned office. The unloading space area has been left free of fittings, but a bench and open locker fitting might well be required. A curtained opening links the area with the shop, but a door may be required here during the winter months as, with the rear folding gate open for any length of time during cold weather, draughts would have to be sealed off from the shop. The stairs give direct access to the stockroom which you propose providing on the first floor.

SHOP. The dividing screen between shop, dispensary, dark



room, office and unloading space has been so positioned and treated that a well-proportioned and balanced service area is obtained. The arrangement, I think, should make the most of available floor area. Stock fittings are provided on the right, left and screen walls, with service counters in front. The centre floor area is occupied with a self-selection display stand, not of quite the same shape as you suggest, but equally adequate for the service you wish to provide, and with ample room between centre stand and service counters to ensure free customer flow.



Please send me a design for fitting the interior of my shop (counter, cases, dispensing department., etc.). A rough plan is enclosed. There are two windows of equal size, one on either side of the door. My idea was to have a partition (topped with glass) put in corner of shop, the partition to be shelved on both sides—on the outside for stock and on the inside for tablets, etc., for prescriptions. The partition would hide the door to the store room, and the space cut off from the shop would be used as part or whole of the dispensing department. I cannot think of any fixture for the opposite corner to give symmetry. Also what colour floor would you suggest?

The plan prepared has been based upon your request for a corner dispensary. That takes the form of an angled screen, glazed in the upper part, and fitted both internally and externally with shelves as you state. A dispensary bench is shown, with a sink at the right-hand end. It is assumed from your original plan that that is an outside one, and that a waste pipe can be conveniently arranged there to run into a nearby gully. The dispensary would also contain a rear wall fitting, with top and bottom cupboards and an open working space at bench height, while the right-hand wall would be fitted with shelves. The service section has either wall fittings or open shelves on the rear and left-hand walls, with service counters in front. Flaps at each end give access into the customer area. The counters would be 3 ft. high by 2 ft. back to front, and would have shallow-front display cases (approximately 6 in. deep) with hinged glazed

doors for access. Behind the front cases would be open lockers and drawers as required (accessible from the rear) to carry stock. The counter top would look well in a plastic veneer of a pastel weave pattern. The two display windows are shown at 24 in. back to front in the clear. Access would be by solid or glazed hinged or sliding doors, the glazed kind, of course, ensuring more daylight in the shop. To the right of the entrance is shown a weighing machine, adjoining a baby-scale table. A shallow showcase has been fitted into the recess formed by the chimney breast and window enclosure. I do not know whether it is your intention to use this fireplace for heating (fitted with, say, an inset electric or gas fire). The magnesite floor suggested can be obtained in a range of colours, one of the most pleasant being a combination of buff and dark brown or red. It is laid in checkered squares, each approximately 30 to 36 in. sq., with dividing strips of black fibre, the squares being laid diagonally. The result is a pleasing and hard wearing floor surface that can be easily cleaned.

NEW BOOKS

Potters New Cyclopædia of Botanical Drugs and Preparations

R. C. WREN, F.L.S., re-edited and enlarged by R. W. WREN, M.P.S., F.L.S., F.C.S. *Sir Isaac Pitman & Sons, Ltd.* 9½ x 6½ in. Pp. 400. 37s. 6d. (Single copies, postage 1s. 5d. extra, from Potter & Clarke, Ltd., River Road, Barking, Essex.)

THOSE who are familiar with the previous editions of this work will find the present (seventh) edition considerably enlarged. The main addition to each monograph is a paragraph on its medicinal uses, embracing in a number of instances even folk-lore. The book contains nearly 200 engravings of English herbs drawn by W. H. Fitch and W. G. Smith from *Illustrations of the British Flora*. The items are listed under their usually accepted names, but synonyms and also the Latin titles of the plant of origin are given. Since descriptions of many botanical preparations can no longer be found in the current British Pharmacopœia and British Pharmaceutical Codex, the cyclopædia should prove

useful to pharmacists who receive inquiries relating to the identity and uses of many household remedies that were in frequent call twenty or thirty years ago but are now obsolescent.

Laboratory Experiments in Organic Chemistry

L. F. HATCH, *McGraw-Hill Publishing Co., Ltd.*, 95 Faringdon Street, London, E.C.4. 11 x 9 in. Pp. 153. 20s. 6d.

THE experiments comprise a series linked in sequence with the author's "Organic Chemistry." The introductory ones acquaint the student with some of the physical properties of organic compounds, and with methods of separating and purifying them. Others deal with properties of various types of compound; and others again with typical reactions (esterification, nitration, etc.). "The experiments have been selected with a thought to the limited laboratory experience of most students who take a one-term course in organic chemistry." The cut pages are ring bound so that the book opens flat; perforated for tearing out, and punched for filing after use.

Your New Rates

F. A. AMIES, B.A., F.C.I.S., F.R.V.A. *Rating and Income Tax*, 21 Red Lion Square, London, W.C.1. 8½ x 5½ in. Pp. 40. 3s.

THE new rating assessments effected in April are explained. Their relationship with rate-in-the-£ are described. How to appeal is outlined.

AMERICAN APPROVED REMEDIES

Products accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies" are—

NYSTATIN.—An antibiotic substance isolated from cultures of *Streptomyces noursei*, (E. R. Squibb & Sons, Division of Olin Mathieson Chemical Corporation.)

CHLORPROMAZINE HYDROCHLORIDE.—2-Chloro - 10 - (3 - dimethylamino)propylphenothiazine hydrochloride, (Smith, Kline & French Laboratories.)

ETHINAMATE.—1-Ethynylcyclohexyl carbamate. —The drug is used chiefly as a hypnotic for the prompt induction of sleep in simple insomnia, (Eli Lilly & Co.)

HYDROCORTISONE SODIUM SUCCINATE.—Sodium 17-hydroxycorticosterone-21-succinate. The drug has the same actions as the parent hormone, (The Upjohn Co.)

HYDROCORTISONE CYCLOPENTYLPROPIONATE.—17-Hydroxycorticosterone-21-cyclopentylpropionate. —The drug has the same systemic actions and potency as equivalent amounts of hydrocortisone, (The Upjohn Co.).

VINBARBITAL, N, F.—5-Ethyl-5(1-methyl-1-butenyl)-barbituric acid, A barbituric acid derivative with the same sedative and hypnotic uses as its sodium salt, (Sharp & Dohme, Division of Merck & Co., Inc.)

MEPHENESIN CARBAMATE.—2-Hydroxy-3-*o*-toloxypropyl carbamate. Mephenesin carbamate exhibits the same systemic actions and has the same uses as the parent drug, (E. R. Squibb & Sons, Division of Olin Mathieson Chemical Corporation.)

DIPHENADIONE.—2-Diphenylacetyl-1,3-indandione. —An orally effective synthetic anticoagulant closely related chemically to phenindione, and also qualitatively similar in action and uses to coumarin derivatives such as bis-hydroxycoumarin, (The Upjohn Co.)

TRIDIHETHYL IODIDE.—3-Diethylamino-1-phenyl-1-cyclohexyl-1-propanol ethoxide. The drug is a synthetic anticholinergic drug with pharmacological actions similar to other drugs of this class, (Lederle Laboratories Division, American Cyanamid Co.)

FLUOROCORTISONE ACETATE.—9 α -fluoro-17-hydroxycorticosterone-21-acetate. The drug is a derivative of hydrocortisone acetate, and has the same qualitative actions, (Sharp & Dohme, Division of Merck & Co., Inc., and E. R. Squibb & Sons, Division of Olin Mathieson Chemical Corporation.)

SITOSTEROLS.—A mixture of 80 to 90 per cent, β -sitosterol and 10 to 20 per cent, dihydro- β -sitosterol. Sitosterols have been proposed for use in conditions in which a sustained reduction of cholesterol in the blood is desirable. Those include diabetes mellitus, hypothyroid states, nephrosis, and xanthomatosis, (Eli Lilly & Co.)

VIBESATE.—A mixture containing 9.3 per cent, polvinate and 3.1 per cent, malrosinol in a mixture of organic solvents and a propellant. Vibesate is a modified polyvinyl plastic that forms a rapidly drying, transparent, pliable, and occlusive film when applied topically as a liquid spray containing a suitable volatile solvent and gaseous propellant. Useful as a surgical dressing, (Aeroplast Corporation.)

SODIUM RADIO-PHOSPHATE (P³²).—Anionic radioactive phosphorus in the form of a solution of sodium acid phosphate (NaH³²PO₄) and sodium basic phosphate (Na₂H³²PO₄) having a pH between 5 and 6. It has a half-life of 14.3 days. The drug has been used extensively in the treatment of polycythemia vera; and has been used effectively in the treatment of chronic myelogenous leukemia. It is of little value in the treatment of Hodgkin's disease and is inferior to x-ray therapy in lymphosarcoma. It has not proved applicable in multiple myeloma nor in any solid tumours of carcinomatous or sarcomatous origin, (Abbott Laboratories.)

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

DUODORM

MANUFACTURER: Gedeon Richter (Great Britain), Ltd., Richter House, Weeding-ton Road, London, N.W.5.

DESCRIPTION: Two-phase action tablets each containing in an outer coating hexobarbitone, gr. 2 (0.13 gm.), and in an inner core butobarbitone, gr. 1 (65 mgm.).

INDICATIONS: Insomnia. **DOSAGE:** 1-2 at bedtime.

HOW SUPPLIED: In containers of twenty-five and 100 tablets.

FIRST ISSUED: December 1, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

LOCAN Suppositories

MANUFACTURER: Allied Laboratories, Ltd., 140 Park Lane, London, W.1.

DESCRIPTION: Suppositories, each containing amethocaine, gr. 3/12; amylocaine, gr. 1/12; phenol, gr. 1/2; bismuth subnitrate, gr. 1; zinc oxide gr. 2, in a special non-greasy base.

INDICATIONS: Haemorrhoids, anal fissure, proctitis, ano-rectal inflammation and irritation.

USE: One suppository should be inserted as deeply as possible, night and morning, and after defaecation.

HOW SUPPLIED: In box of twelve suppositories. **FIRST ISSUED:** March 26, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

PENIDURAL-SULPHAS

MANUFACTURER: John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION: *Oral suspension* contains in each 5-c.c. teaspoonful and *tablets* each contain: 150,000 units benzathine penicillin and 0.167 gm. of each of the sulphonamides, sulphadiazine, sulphamerazine, and sulphadimidine (a total of 0.5 gm.).

INDICATIONS: Infections caused by any organisms sensitive to either penicillin or the sulphonamides.

DOSAGE: *Children up to six years old*, initially, 1-2 teaspoonfuls; maintenance, $\frac{1}{2}$ -1 teaspoonful every six hours. *Children six to twelve years old*, initially, 3 teaspoonfuls or 3 tablets; maintenance, 1 teaspoonful or 1 tablet every six hours. *Adults*, initially 4 teaspoonfuls or 4 tablets; maintenance, 2 teaspoonfuls or 2 tablets every six hours.

HOW SUPPLIED: *Suspension:* In bottle of 50 c.c. *Tablets:* In bottle of twenty.

FIRST ISSUED: November 21, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

OROVITE

MANUFACTURER: Vitamins, Ltd., Upper Mall, London, W.6.

DESCRIPTION: High potency vitamin B complex *tablets* each containing aneurine hydrochloride, B.P., 50 mgm., riboflavine, B.P., 5 mgm., nicotinamide, B.P., 200 mgm., pyridoxine, B.P.C., 5 mgm. An *elixir* contains the same quantities in $\frac{1}{2}$ fl. oz.

INDICATIONS: 1. Promotion of recovery after infection, for example, influenza, pneumonia, enteritis, measles. 2. Severe debility following operation or illness. 3. Promotion of psychological well-being in children and in old people, especially those with mental impairment. 4. Maintenance of a high vitamin intake after an initial course of injections of Parentrovite.

DOSAGE: *Tablets*, 1-3 daily; *Elixir*, 1-3 teaspoonfuls, three times daily.

HOW SUPPLIED: *Tablets*, in packs of twenty-five, 100 and 500; *Elixir*, in bottles of 6 and 40 fl. oz.

FIRST ISSUED: *Tablets*, November 1, 1955; *Elixir*, April 1, 1956.

REFERENCES: Gould, *Proc. roy. Soc. Med.*, 1954, **47**, 215. Frankau, *J. Addiction*, 1954, **51**, 39. Caldwell, *J. Ment. Sci.*, 1944, **90**, 95. Sumner, *Lancet*, 1950, **1**, 252. Strom Olsen, *Practitioner*, 1951, **167**, 143. Gregory, *Amer. J. Psychiat.*, 1952, **108**, 888.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

MONODORM

MANUFACTURER: Gedeon Richter (Great Britain), Ltd., Richter House, Weeding-ton Road, London, N.W.5.

DESCRIPTION: Enteric-coated tablets each containing butobarbitone, gr. 1½.

INDICATIONS: Early morning insomnia. DOSAGE: One tablet at bedtime.

HOW SUPPLIED: In containers of twenty-five, 100 and 250 tablets.

FIRST ISSUED: December 1, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

TACE

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: A new fat-soluble oestrogen which rarely gives rise to side-effects or withdrawal bleeding. Each capsule contains 12 mgm. tri-*p*-anisylchloro-ethylene dissolved in oil.

INDICATIONS: Prostatic carcinoma; menopausal syndrome; inhibition of lactation; acne.

DOSAGE: *Prostatic carcinoma*, 1-2 capsules daily; *Menopausal syndrome*, 2 capsules daily for thirty days; *Inhibition of lactation*, 4 capsules daily for seven days; *Acne*, 1 capsule daily.

HOW SUPPLIED: In bottles of sixty and 300 capsules.

FIRST ISSUED: November 1955.

REFERENCES: Carroll and Brennan, *J. Amer. med. Ass.*, 1955, **157**, 581. Gillam, Hunter and Darner, *J. clin. Endocr.* 1954, **14**, 272. Nulsen, Carmon and Hendrick, *Amer. J. Obstet. Gynec.*, 1953, **65**, 1048.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

OTALGAN

MANUFACTURER: Serumwerk, Basle.

DISTRIBUTOR: Unichem, Ltd., Broadwater Road, London, S.W.17.

DESCRIPTION: Ear drops containing procaine, 1 per cent. and phenazone, 5 per cent. in anhydrous glycerin.

INDICATIONS: An analgesic and local anæsthetic with antiphlogistic action for painful affections of the middle ear and external auditory canal.

USE: To be instilled into the ear.

HOW SUPPLIED: In 6-gm. and 12-gm. bottles.

(REISSUED: December 1, 1955, with amended formula).

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

PENIDURAL Oral Drops

MANUFACTURER: John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION: Flavoured aqueous suspension of benzathine penicillin (150,000 units per c.c.) for oral use in paediatrics.

INDICATIONS: Moderate infections caused by penicillin-sensitive organisms.

DOSAGE: *Infants up to two years old*, 100,000-200,000 units every four to eight hours, according to severity of infection.

HOW SUPPLIED: In bottle of 10 c.c. with dropper calibrated to deliver 100,000 units. FIRST ISSUED: November 21, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (May 5, 1956)

**DIPHTHERIA-TETANUS-PERTUSSIS
PROPHYLACTIC (D.T.P.P.)**

MANUFACTURER: Wright-Fleming Institute of Microbiology, St. Mary's Hospital Medical School, London, W.2.

DISTRIBUTOR: Parke, Davis & Co., Ltd., Hounslow, Middlesex.

DESCRIPTION: Each dose (1 c.c.) contains: Purified diphtheria toxoid (formol toxoid), 25 L.f. units; purified tetanus toxoid, 5 L.f. units; *H. pertussis* (Bordet's bacillus), 20,000 million; preservative, 0.1 per cent. thiomersalate.

INDICATIONS: For simultaneous immunisation against diphtheria, tetanus and whooping cough.

DOSAGE: Three injections of 1 c.c., subcutaneously, at intervals of 4-6 weeks.

HOW SUPPLIED: In set of three 1-c.c. doses; and 10-c.c. vial.

FIRST ISSUED: December 7, 1955.

WORLD TRADE

Egyptian Import Duties.—The Egyptian Government has announced that a customs statistical duty of one per cent. on all imported goods was imposed with effect from April 19.

French Liberalisation Stepped Up.—The *Journal Officiel* has issued an additional list of goods for which the quantitative restrictions on imports from countries belonging to the Organisation for European Economic Co-operation are now removed. This move brings the trade liberalisation from the former 79 per cent. to 82 per cent. The French Government previously intended to step it up to 85 per cent. Among other items included are: Barium sulphate, cerium compounds, nitrochlorobenzenes, salicylic acid and salts, diphenylamine and derivatives and miscellaneous insecticides.

U.S. Trade with Soviet Union.—It was stated in Washington recently that there had been a substantial increase in United States trade with Soviet-bloc countries. A list has been published of about 700 non-strategic items in over fifty-seven categories that American exporters may now ship to those countries under a new general licence. (Previously U.S. exporters were required to procure from the Bureau of Foreign Commerce an individual export licence for each shipment.) The items include drugs and pharmaceuticals, dyes, chemical specialities, soap and toiletries, and photographic equipment.

Antibiotics for China?—Traders in Hong Kong are reported to be building up stocks of antibiotics in expectation of a future relaxation on the ban on pharmaceutical shipments to China. Considerable quantities have been imported from the United States and further orders are being placed. Meanwhile because of the ban Japanese penicillin manufacturers are planning to raise the prices of their products by about 20 per cent. to offset effects of a recent decline in sales. Under the plan, the manufacturers' prices will be increased to about 200 yen (4s.) per 3 million international units from the present 155 to 165 yen.

India's Nationalisation Programme.—Mr. Nehru, the Indian Prime Minister, has announced plans to double the number of industries which will be Government monopolies or will have future developments controlled by the Government. He said the Government would also undertake State trading on an increasing scale. Revising the Government's policy for the first time in eight years, Mr. Nehru said that industries would be divided into three categories: first, those in which future development would be the exclusive responsibility of the State; secondly those which would be progressively State-owned and in which the Government would generally take the initiative for new undertakings but in which private enterprise would supplement the efforts of the State; and thirdly, all remaining industries which would be left generally to the private sector. In the second category twelve industries are listed three of which are: drugs; dyestuffs and plastics; and antibiotics and other essential drugs.

DRUG RELEASE FROM TOPICAL APPLICATIONS

Methods of evaluation reviewed

A PAPER entitled "The Evaluation of Drug Release from Topical Applications" was read at an evening meeting of the Scottish Department of the Pharmaceutical Society in Edinburgh recently. The joint authors were Messrs. D. H. O. Gemmell, B.L., F.P.S. (senior lecturer in pharmaceuticals, Glasgow Royal Technical College) and J. C. Morrison, B.Sc. (a research student at the College). Mr. W. A. Park (chairman of the Executive of the Scottish Department) presided.

Topical preparations, said MR. MORRISON, were formulated for either the local or the systemic effect of the incorporated drug. For both there was a need to devise suitable methods of evaluating drug release from the vehicle or base used.

Percutaneous penetration occurred mainly by way of the hair follicles, the sebaceous glands and sweat glands. Among the factors influencing drug penetration and absorption through the intact skin were mode of application, vehicle, lipid solubility of the drug, and partition coefficient of the drug between its vehicle or base and the dermal secretions. Penetration readily occurred through broken skin because the protective barrier of the outer layers had been removed.

The methods used for evaluating the efficiency of a topical application were:

1. *In vitro* METHODS
 - (a) Diffusion methods
 - (i) Chemical and physical estimations
 - (ii) Microbiological assays
 - (b) Membrane methods
 - (i) Chemical and physical estimations
 - (ii) Microbiological assays.
2. *In vivo* METHODS
 - (a) Blood, urine and faeces analysis,
 - (b) Organ analysis,
 - (c) Characteristic reactions,
 - (d) Biopsy examination,
 - (e) Histological methods,
 - (f) Miscellaneous methods.
3. CLINICAL METHODS.
4. RADIO-ACTIVE TRACER METHODS.

The *in vitro* methods were of limited value but usually indicated the ability of the vehicle or base to liberate the medicament under the conditions of the test. An estimate can be made of the rate of diffusion of a drug from its vehicle; where the purpose of the application was surface activity the results were valuable. The assumption in chemical and physical estimations was that the distribution of the medicament between vehicle or base and the area under treatment would be similar to the distribution occurring between vehicle or base and the medium of the test. Microbiological assays assessed the antiseptic value and indicated the rate and degree of release of the medicament from the vehicle. Membrane methods were used to simulate *in vitro* the barrier the skin presented to a topical application. Both natural and artificial membranes had been used; the process of penetration through the skin was assumed similar to the quantitative diffusion of a drug through the permeable membrane.

Numerous methods using living test-animals had been devised to determine both penetration and absorption of the medicament, and the results showed that animal experiments might be justifiably extended to problems concerning human beings. Following the cutaneous application of a drug, its detection in the bloodstream, urine or faeces offered the most conclusive proof of its absorption, but where there was a tendency for the body to store the drug in particular organs, such determinations might not give a true picture of the rate of absorption. Many workers had adopted pharmacological or physiological end-points to determine the time taken for the passage of a drug through the skin and to produce a systemic effect. Substances studied included strychnine, sex hormones, vitamins and local anaesthetics. With biopsies, the amount of drug present in each specimen could be estimated by special treatment, for example, by boiling the specimen to release the drug, which was then assayed, or by sectioning the specimen and treating it by normal histological processes. Histological methods had been used by a number of workers and fluorescent microscopy had been applied to skin and tissue specimens.

HELMINTHS AND ANTHELMINTICS

Exhibits illustrate a lecture in Edinburgh

HELMINTHIASIS in its various forms was the most common disease of mankind, said MR. A. W. PATTERSON, F.P.S., D.B.A., in an address recently to the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society.

Mr. Patterson illustrated the three classes of parasitic helminths with examples. The nematode class was exemplified by threadworm (*Enterobius*) and roundworm (*Ascaris*). Threadworm infestation was stated to be the only form of helminthiasis of importance in Britain. *Ascaris* or roundworm was the helminth that most closely resembled earthworms found in the garden. The astonishing fertility of helminths was exemplified by the roundworm, the female of which laid about 200,000 eggs a day. The trematodes, or flukes, were not common in man in Britain. Mr. Patterson outlined the morphology and life cycle of *Schistosoma* and referred to the pathology of schistosomiasis, the disease caused by that parasite. *Taenia solium*, the pork tapeworm, served to illustrate the cestode or tapeworm class of helminths.

In spite of preventive measures, said the speaker, helminthiasis was still rampant, and diagnosis and treatment were necessary. He described diagnostic methods, including detection of eggs or larvae in body fluids, and serological methods involving the production of a flare on the skin following the injection of worm substance. Treatment was by the method of chemotherapy.

Clinical methods had amply demonstrated the systemic absorption of medicaments, but many of the methods did not readily assist in evaluating drug release. Radioactive tracer techniques using labelled sodium chloride and iodide had been used in testing ointments for absorption.

No one test gave simultaneously the rate of liberation, degree of penetration and rate and degree of absorption.

In the discussion which followed, MR. C. G. DRUMMOND, Edinburgh, asked what was the purpose of mixing paraffin and lanolin to make an ointment base. MR. MORRISON said lanolin was used for its penetrating property, the paraffin as a protective.

DR. G. H. MACMORRAN said that it would be difficult to find a base that would release the drug at the site where its action was required. A drug absorbed too freely might not be sufficiently long in contact with the desired tissue. Method of application of a preparation might also affect its efficiency. MR. MORRISON agreed that there was a danger of the medicament's being absorbed by lint in a dressing.

MR. D. A. R. MONCUR, Edinburgh, asked if Mr. Morrison had any information on the toxicity of propylene glycols. MR. MORRISON replied that the literature made no mention of propylene glycols' being toxic.

Mr. Patterson discussed the historical development of helminthology, the history of such drugs as male fern, pomegranate and chenopodium and the introduction of more recent drugs such as thymol and betanaphthol. He described modern research methods for new and better anthelmintics, which he said could be divided into biological testing technique and organic analytical and synthetic chemistry. Biological techniques included culturing helminths or keeping them alive after removal from the host. The best method was the use of laboratory animals infected with parasitic helminths. *In vitro* tests using worms recently obtained from the host were of some application in the comparative testing of series of chemicals. Choice of chemicals for testing was based on the features observed in the chemical constitution of such established anthelmintics as san-tonin, filicic acid, thymol, betanaphthol.

The principal exhibit was the lecturer's own apparatus for the *in vitro* testing of drugs for anthelmintic activity. The procedure involved maintaining *Ascaris* and *Fasciola hepatica* preparations at body temperature.

In answer to questions, Mr. Patterson stated that the cure rate of gentian violet in oxyuriasis was about 70 per cent., but that the drug was sometimes toxic. Diphenan was less efficient, having a cure rate of only 20 per cent. Mepacrine, of recent interest in the expulsion of tapeworm, might replace male fern for that purpose. Chloroquine for taeniasis was less efficient than mepacrine.



Pioneers of Anticoagulant Therapy

THE USE OF ANTICOAGULANT THERAPY in suitable cases is now firmly established. To avoid or to treat the dangers of cessation of flow of blood by thrombus or embolus formation, PULARIN (Heparin-Evans) and DINDEVAN (Phenindione-Evans) are unexcelled. For emergency use PULARIN is administered intravenously, and continuation of anticoagulant therapy ensured by subsequent administration of intramuscular Pularin or orally administered Dindevan.

Pularin —

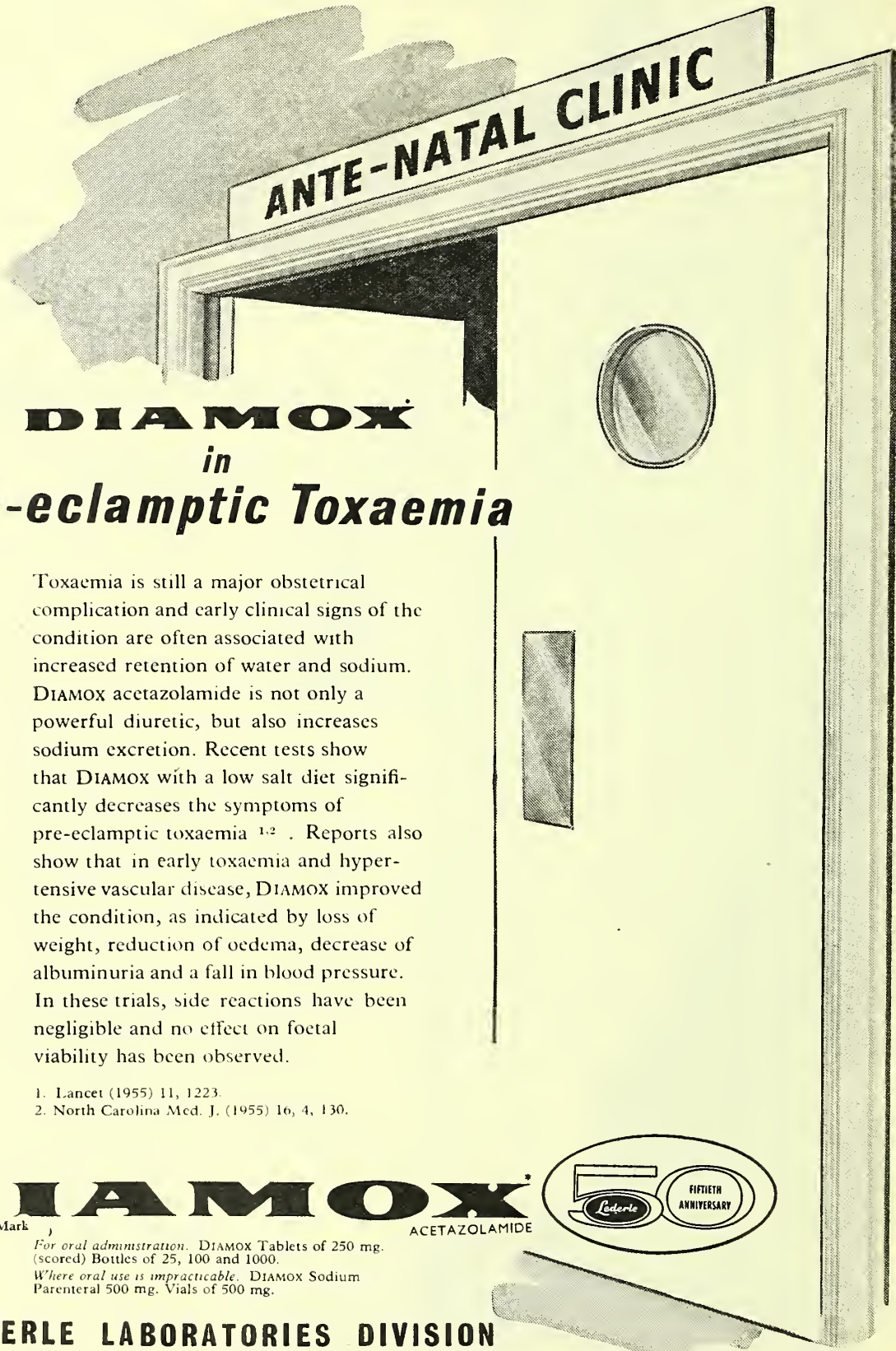
1,000 I.U./ml. 5 ml. rubber-capped bottle
5,000 I.U./ml. 5 ml. rubber-capped bottle
25,000 I.U./ml. 5 ml. rubber-capped bottle
12,500 I.U./ml. 1 ml. ampoule

Dindevan —

Containers of 25 and 100 tablets

*Further information on request from Medical
Information Department, Speke, Liverpool, 19*

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ANTE-NATAL CLINIC

DIAMOX
in
Pre-eclamptic Toxaemia

Toxaemia is still a major obstetrical complication and early clinical signs of the condition are often associated with increased retention of water and sodium. DIAMOX acetazolamide is not only a powerful diuretic, but also increases sodium excretion. Recent tests show that DIAMOX with a low salt diet significantly decreases the symptoms of pre-eclamptic toxaemia^{1,2}. Reports also show that in early toxaemia and hypertensive vascular disease, DIAMOX improved the condition, as indicated by loss of weight, reduction of oedema, decrease of albuminuria and a fall in blood pressure. In these trials, side reactions have been negligible and no effect on foetal viability has been observed.

1. Lancet (1955) 11, 1223.

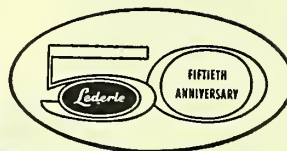
2. North Carolina Med. J. (1955) 16, 4, 130.

DIAMOX
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ACETAZOLAMIDE

For oral administration. DIAMOX Tablets of 250 mg. (scored) Bottles of 25, 100 and 1000.

Where oral use is impracticable. DIAMOX Sodium Parenteral 500 mg. Vials of 500 mg.



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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MAY 2: Notification of reduced prices for two of the VITAMINS were received during the week. ANEURINE HYDROCHLORIDE was reduced by £3 per kilo and ASCORBIC ACID, from May 7, is being reduced by 7s. to 8s. per kilo, according to quantity. PHENOBARBITONE was also quoted 2s. 6d. per lb. (5s. 6d. per kilo) lower from May 1.

Despite the quiet trading conditions in the CRUDE DRUGS market most prices were firmly held. BUCHU was a little dearer again, with supplies restricted. The general indication of prices for new-crop crude drugs of United States origin is that they will be higher than in 1955 because of a minimum-wage-rate ruling of the U.S. Government. Already the offering price to collectors of CASCARA SAGRADA is higher than in 1955, and new-crop WITCH-HAZEL leaves are likely to be up to at least 2s. 4d. per lb. One grade of SHELLAC was 5s. per cwt. dearer. PEPPER was again weaker, but TURMERIC was a little firmer despite some weakening at origin. AFRICAN GINGER was on offer at 230s. per cwt., against 235s. in the previous week.

Pharmaceutical Chemicals

ADRENALINE.—Rates for synthetic B.P. are from 1s. 3d. (500 gm. lots) to 1s. 9d. (10 gm.) per gm. and ACID TARTRATE, B.P., from 10d. to 1s. 2d.

AMIDOPYRIN. — Minimum price (5-cwt. lots) is 22s. 8½d. per lb., with usual differential for smaller lots.

AMMONIUM ACETATE. — 1-cwt. lots of B.P.C. are quoted at 3s. 9d. per lb.

AMMONIUM BICARBONATE. — The B.P. powder is £50 5s. per ton; CARBONATE is £81 10s. for lump and £85 10s. for powder, all delivered terms.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 68s.

ANEURINE HYDROCHLORIDE. — Price per kilo is £22 5s. with 10-kilo lots at £22 2s. 6d. per kilo.

ANTIMONY SALTS.—Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

ASCORBIC ACID. — Lower. Rates (per kilo) are:—1 kilo, £5 7s.; 10 kilos, £5 4s.

BIARIUM SULPHATE.—1-cwt. lots of B.P. (x-ray) are now 1s. 6½d. per lb. and 5-cwt., 1s. 5½d. per lb.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BENZAMINE.—In 16-oz. lots LACTATE is 15s. 3d. per oz. and HYDROCHLORIDE, 16s. 3d. per oz.

BENZOCAINE.—Minimum price for B.P. is 20s. 6d. per lb.

BENZOIC ACID.—1-cwt. lots are 2s. 11½d. per lb. The SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

BORAX.—Prices for B.P. grade, for quantities of 1 ton and upwards, are as follows:—Granular, £50; crystals, £52 10s.; powder, £53 10s.; extra fine powder, £54 10s. per ton. Prices of commercial range from £40 to £45 10s. per ton, as to type and packing. Dehydrated borax is £61 10s. per ton in paper-lined hessian bags or £60 10s. in paper bags; carriage paid in Great Britain. Usual surcharges for smaller quantities.

CALCIUM CHLORIDE. — B.P. crystals are 1s. 3½d., and granulated, 10½d. per lb. in 1-cwt. lots.

CHLORAL HYDRATE. — In 1-cwt. lots the price is about 3s. 10d. per lb. as to holder.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. 7d. per lb. for 1-cwt. lots. 10-cwt.

CINCHOPHEN.—1-cwt. lots are quoted at 21s. per lb.

CITRATES.—Rates (per lb.) are as follows:—POTASSIUM, 1-cwt. lots, 3s. 10½d.; 28-lb., 4s. 10d.; SODIUM, 1-cwt., 3s. 3½d.; 28-lb., 4s. 1½d. (powder of both salts twopence more). IRON AND AMMONIUM, 1-cwt. lots, granulated, 4s. 2½d.; 28-lb., 5s. 3d. Scales are 9d. per lb. above the granulated.

DEXTROSE. — Rates are as follows:—MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works, ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 250s. per oz. The BISMUTH IODIDE is 125s. per oz.

ERGOMETRINE. — For 29-gm. lots the price of the MALEATE, B.P., is £21 10s. per gm., and the TARTRATE, £20 per gm.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d. In drums prices are 4d. per lb. less than above.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt. lots.

HYPOPHOSPHITES.—Prices per lb. are as follows:—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
CALCIUM	6 4	5 11	5 6
IRON	13 3	12 9	12 3
MAGNESIUM	10 4	9 11	9 6
MANGANESE	13 6	13 0	12 6
POTASSIUM	8 7	8 2	7 9
SODIUM	7 1	6 8	6 3

ICHTHAMMOL. — B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IODOFORM.—Powder is 26s. 1d. per lb. in 1-cwt. lots and crystals, 28s. 9d.

ISONIAZID.—In 5-kilo lots the price is about 140s. per kilo.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 160s. per cwt. for 5-cwt. lots and about 135s. per cwt. for 1-ton lots.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are, 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P. — Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM TRISILICATE. — In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

OXALIC ACID.—Manufacturers' rates for 1-ton lots are from £129 per ton, delivered.

PARALDEHYDE. — In 40-gal. drum lots the stabilised is 153s. per cwt. and the technical, 126s.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PHENOBARBITONE.—1-cwt. lots are 22s. 6d. per lb.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 11s. per lb.

POTASSIUM BROMATE.—In 5-cwt. lots, 7s. per lb. In smaller quantities the prices range up to 8s. 9d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.; technical, flake, 1s. 4d.

RESERPINE. — Price is from 75s. per gm.

SODIUM ACETATE.—B.P.C. in 1-cwt. lots is 1s. 8d. per lb.

SODIUM CARBONATE.—B.P. exsiccated is 60s. 6d. per cwt.

SODIUM PERCARBONATE. — Prices (per cwt.) about 166s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. 3½d. to 5s. 2d. per lb.

TEREBINTH.—B.P. is 2s. 3d. per lb.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 4s. per lb., duty paid.

ANISEED (STAR).—Chinese is offered at 142s. 6d. per cwt., duty paid and 125s., c.i.f., for shipment.

ARECA NUTS. — Quotations are from 40s. to 55s. per cwt., as to quality on the spot. Shipment, 45s., c.i.f.

BUCHU. — A parcel afloat is offered at 7s. 3d. per lb., c.i.f.; spot, 7s. 6d.

CAMPHOR. — B.P. POWDER is from 5s. 6d. per lb., duty paid. TABLETS, ¼-oz. are 5s. 9d., c.i.f., and 6s. 4½d., spot.

CASSIA BARK. — Whole on the spot is about 90s. per cwt., in bond and for forward delivery, 80s., c.i.f. Broken, 75s., in bond, and 67s. 6d., c.i.f.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 6s. 11½d.; OOO, 6s. 9½d.; OO, 6s. 7d.; O, 6s. 5d.; firsts, 5s. 6d.; quillings, 3s. 7½d.; chips, 9½d. to 10½d.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 2½d. per lb.; prompt shipment, 3s. 2½d., c.i.f. Madagascar, 2s. 10d., duty paid, 2s. 7½d., c.i.f.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria	Piastres to £	974-974
Amsterdam		10.56-10.72
*Bombay	Shillings to rupee	1/5 11/8-1/6 1/8
Brussels	Francs to £	138.95-141.05
Copenhagen	Kronor to £	19.19-19.48 1/2
Dutch West		
Indies	Florins to £	5.24-5.32
*Hong Kong	Shillings to \$	1/2 11/8-1/2 11/8
*Karachi	Shillings to rupee	1/5 11/8-1/6 1/8
Lisbon	Escudos to £	79.90-81.10
*Montreal	Dollars to £	2.79 1/2-2.79 1/2
New York	Dollars to £	2.78-2.82
Oslo	Kronor to £	19.85-20.15
Paris	Francs to £	972.6-987.3
Stockholm	Kronor to £	14.37 1/2-14.59 1/2
*Singapore	Shillings to \$	2/3 11/8-2/4 1/8
Zurich	Francs to £	12.15 1/2-12.33 1/2
*Free market rates; remainder Bank of England.		
Bank rate increased to 5 1/2 per cent. on		
February 16.		

DIGITALIS LEAF.—*Purpurea* is offered at 3s. 2d. per lb., c.i.f.

ERGOT.—Portuguese on the spot is 8s. 9d. per lb.; forward, 8s. c.i.f.; Polish is from 4s. 6d.; Hungarian, high-testing, 11s. 6d. landed terms, and American, 10s. all on the spot.

GALANGAL.—Root is quoted at 55s. per cwt., c.i.f., for f.a.q.

GENTIAN.—Very scarce with 150s. per cwt. asked for spot. No shipment offers.

GINGER.—African is offered on the spot at 230s. per cwt., with shipment at 220s., c.i.f. Jamaican No. 3 for April-May shipment, 480s., c.i.f. (buyers).

GUM ACACIA.—Kordofan cleaned sorts on the spot are 140s. per cwt. and shipment, 129s., c.i.f.

HENNA.—Indian is 70s. per cwt. on the spot.

HONEY.—Firm. Australian light-amber is 150s. and medium-amber, 140s.; Argentine material offered at 155s. Jamaican new-season is 150s. to 155s., all per cwt., on the spot.

HYDRASTIS.—Root is from 19s. per lb., on the spot.

IPECACUANHA.—Nicaraguan, 56s. per lb., c.i.f.; 57s. 6d. to 60s. spot, as to test. Colombian, 52s. spot, and 47s. 6d., c.i.f. Matto Grosso, 46s. 6d., c.i.f.

KARAYA.—No. 1 gum on the spot is now quoted at 295s. per cwt., and No. 2 at 255s.

KOLA NUTS.—Jamaican are offered at about 8d. per lb. spot.

LANOLIN.—In 1-ton lots the price of ANHYDROUS, B.P., is from 160s. to 165s. per cwt.; 5-cwt. lots from 162s. to 167s. per cwt. HYDROUS, B.P., is from 140s. to 142s. for similar quantities. All in drums, carriage paid, U.K.

LIQUORICE.—Quotations (per cwt.) for natural root are: Anatolian, 55s.; Russian, 42s. 6d.; Persian, 35s. Block juice is 200s. per cwt. for the Anatolian and 195s. for Chinese on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

LOBELIA HERB.—Spot material is 11s. per lb.

MERCURY.—Per flask (76-lb.) £85 on the spot.

MYRRH.—A small parcel of sorts on the spot offered around £18 10s. per cwt.

NUTMEGS.—West Indian for shipment official prices, 3s. 3d. per lb. for wormy and broken; 4s. 7d. for sound unassorted, f.o.b. terms.

ORANGE PEEL.—West Indian bitter quarters are 11d. to 1s. per lb.

PAPAIN.—Spot value for East African grade one is about 20s. per lb. Ceylon brown is 14s. per lb., c.i.f. and spot.

PEPPER.—Decline continues. White Sarawak on spot is now at 2s. 3½d. per lb. and for May shipment, 2s. 1d., c.i.f. Black Sarawak is 2s. 1d. per lb., spot and May shipment, 1s. 11d., c.i.f. Black Malabar is now 270s. per cwt., spot and May-June shipment, 240s., c.i.f., quoted.

PIMENTO.—Forward rate is now 520s. per cwt., c.i.f.

PODOPHYLLUM.—*Emodi* is quoted at 150s. per cwt. ex wharf. Indication for new-crop *Peltatum*, 500s., landed.

PSYLLIUM.—Indian seeds are quoted at 1s. 1d. per lb. on the spot.

QUASSIA.—Chips are 45s. per cwt. on the spot.

QUILLAIA.—Spot offers of bark are about 225s. per cwt. with shipment about 180s., c.i.f.

RHUBARB.—Quotations are from 7s. 6d. to 10s. 6d. per lb. as to quality.

SAFFRON.—Firm. Mancha superior on the spot is from 260s. per lb.

SANDALWOOD.—Chips are 1s. 4d. per lb. on the spot.

SEEDS.—(Per cwt.). ANISE.—Tunisian is now 230s., in bond; Spanish, 260s., duty paid. CARAWAY.—Dutch offering at 146s., duty paid. CELERY.—Indian is firm at 140s., spot and shipment, 126s., c.i.f. CORIANDER.—Steady. Spot, Moroccan nominal 95s., duty paid for sound quality. Rumanian or Danubian, 62s. 6d., duty paid; Bulgarian small seed selling at 50s., duty paid. CUMIN.—Market remains steady. Spot Cyprian selling at 130s. Moroccan quoted at 135s. in bond, and Iranian 125s., duty paid. DILL.—Quiet. Sellers inviting bids of 62s. 6d., on spot. FENNEL.—Firm. Indian on spot is 95s. New crop for shipment is quoted at 120s., c.i.f. FENUGREEK.—Firm. Indian quoted at 72s. 6d. with Moroccan at 72s., duty paid. MUSTARD.—English 57s. 6d. to 75s., according to quality.

SENEGA.—Spot is 20s. per lb. Shipment, old crop, 18s. landed terms.

SERPENTARIA.—Offers for shipment are quoted at 40s. per lb., landed terms.

SHELLAC.—F.O.T.N., 265s. per cwt.; F.O. No. 1, 290s.; fine orange, 330s. to 390s.

SLIPPERY ELM.—Grinding quality bark is 2s. 7d. per lb., landed.

SQUILL.—White is offered on the spot at 65s. to 70s. per cwt.

STRAMONIUM.—Indian LEAVES are 75s. per cwt. and European 80s. on the spot.

STYRAX.—Spot value is 5s. 9d. per lb., duty paid.

TONQUIN BEANS.—Para frosted are 6s. 6d. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £175 to £180 per cwt.; No. 2, £135 to £140.

TURMERIC.—Madras finger on the spot is 145s. per cwt. May-June shipment is quoted at 102s. 6d., c.i.f.

WITCH HAZEL LEAVES.—Offers are 2s. per lb. on the spot.

Essential and Expressed Oils

ANGELICA SEED.—Price per lb. is now quoted at 225s.

BAY.—West Indian is 11s. per lb. on the spot.

BERGAMOT.—Spot quotations are now 65s. per lb.

BUCHU.—Spot is offered at 360s. per lb.

CALAMUS.—Offers are from 55s. per lb.

CAMPOR, WHITE.—Chinese is 2s. per lb., duty paid.

CANANGA.—Spot is from 55s. to 59s.

CARAWAY.—English-distilled is offered at 55s. and imported from 33s. per lb., duty paid.

CASTOR.—Minimum 2-ton lots of pharmaceutical quality, £154 per ton, naked ex mill, May delivery.

CEDARWOOD.—1-cwt. lots of American are 6s. 6d. per lb.

CELERY SEED.—Oil is 105s. per lb. for bulk lots.

CHAMOMILE.—English oil is offered at from 240s. to 256s. per lb.

CHENOPODIUM.—Spot supplies are 31s. per lb.

CORIANDER.—Russian-seed oil is quoted from 82s. 6d. per lb.

CUBEB.—Spot price for small lots is 50s. per lb.

CUMIN.—Quotations for English-distilled oil are about 110s. per lb. and imported, 57s. 6d.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 8d. per lb.; 80 to 85 per cent., 6s. 4d. Spanish 70 to 75 per cent. at 5s. 6d., duty paid. Chinese type, 5s., duty paid.

GARLIC.—English is 55s. per oz.

GINGER.—English-distilled oil is 205s. per lb. Imported oils are now 170s. per lb., duty paid.

GINGERGRASS.—Offers are from 28s. per lb.

GRAPEFRUIT.—Jamaican is 14s. per lb., and South African, 16s. 6d.

HYDROCARPUS.—Spot is about 2s. 2d. per lb.

LAVENDER SPIKE.—Spanish is offered at 13s. 6d. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 25s. and 55s. per lb. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LIME.—Supplies of West Indian distilled are offered from 30s. to 32s. 6d. per lb. on the spot.

ORANGE.—Spot quotations of sweet oil are from 4s. 6d. per lb. for Floridan to 12s. 6d. for West African. For shipment, proprietary brand Californian sweet is 6s. 1½d., c.i.f., and cold-pressed, U.S.P., 9s. 4d., c.i.f. Terpeneless is 210s. per lb., spot. Bitter orange oil is 20s. per lb.

OTTO OF ROSE.—Bulgarian is 450s. and Turkish, 190s. per oz.

PALMAROSA.—East Indian, 60s., spot; 56s. 6d., c.i.f.

PATCHOULI.—Penang is 44s., duty paid, and 36s. 6d., c.i.f.

PENNYROYAL.—Spot is quoted at 23s. 6d. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese is 33s. per lb. on the spot and 32s. 6d., c.i.f. Brazilian, 25s., spot and 22s. 6d., c.i.f. Italian "Mitcham" type oil is from 70s., spot, and American, 42s. 6d. to 47s. 6d. English Mitcham, 190s. to 200s.

PETITGRAIN.—Paraguay, spot, 24s. 6d. to 25s. 6d. per lb., as to brand.

PIMENTO.—English-distilled berry is 180s. per lb., imported is 67s. 6d. Rectified leaf (imported), 27s. 6d. per lb.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 12s. 6d.

ROSEMARY.—Spanish oil on the spot is from 5s. to 5s. 6d. per lb., duty paid, for drum lots, as to quality.

SAGE.—Spanish is offered at from 8s. per lb.

SPEARMINT.—Offers of U.S. oil for shipment are about 35s. 6d. per lb., c.i.f., with spot at 39s. 6d. Dutch quoted at 38s. 6d., duty paid, with Chinese offered at 27s. 6d.

TANGERINE.—Sicilian is from 36s. to 48s. per lb. on the spot; Californian is 15s.

THYME.—Spot is 9s. per lb. for the B.P.C.

VETIVERT.—Bourbon in original drums on the spot is 87s. per lb.

UNITED STATES REPORT

NEW YORK, MAY 1: The spot market for DRUGS and FINE CHEMICALS has been uneventful, with no price changes reported. Crude drugs were generally quiet. The late arrival of spring has delayed new-crop botanicals. Higher per lb. was SERPENTARIA at \$5.25, up 25 cents. Lower per lb. was COCILLANA at 20 cents, down four cents. The market for ESSENTIAL OILS appeared somewhat slack, and such price changes as were made were on the downside. Lower per lb. were Spanish SAGE, at \$1.20 (down 10 cents); SPEARMINT, \$1.40 (10 cents); PATCHOULI, \$7.00 (50 cents); and 70/75 per cent. EUCALYPTUS, 70 cents (two cents).

BRAZILIAN CHEMICAL INDUSTRY

Large capital investments

CAPITAL invested in the Brazilian chemical and pharmaceutical industries, converted at the official rate of exchange, increased in 1954 by £30,822,000 and in 1955 by a further £50,900,000. Capital increases by existing companies accounted for approximately 96 per cent. of the total in 1955. Average profits on investments in 126 chemical manufacturers, whose balance sheets were examined by the semi-official *Conjuntura Economica*, increased from 18.8 per cent. in 1953 to 20.1 per cent. in 1954; 77 and 72 per cent. respectively, of the profits were reinvested in the enterprises in those two years. Detailed statistics for 1955 are not yet available.

Overseas firms are taking increased advantage of a ruling whereby imports of equipment and materials to establish new industries in Brazil are authorised without exchange cover. The value of such imports may be registered as foreign investment capital and is entitled to special facilities for repatriation and remittance of profits.

Activity promises to be well maintained during 1956. The inauguration in 1955 of three petroleum refineries, processing a total of 95,000 barrels of crude petroleum daily, has facilitated the setting-up of the petrochemical industry in Brazil. Ethylene, anhydrous ammonia and nitrogenous fertilisers will be produced shortly and the American Grace interests, in association with the German Farbwerke Hoechst, are installing plant to manufacture polyethylene by the Zeigler process at Cubatao, near the Cubatao oil refinery. In the same neighbourhood Alba, S. A., formed with

American and Brazilian capital, are building a factory to produce formol and synthetic resins.

Farbenfabriken Bayer, Leverkusen, Germany, whose products are already being manufactured by six Brazilian firms on a royalty basis, are starting to build new chemical works in the State of Rio de Janeiro this year, on land belonging to its local associates. Equipment is being imported under the provisions mentioned before, and products to be manufactured include aromatic and other essences, synthetic resins, insecticides and similar products. Four factories in all are projected, the first two to be completed in 1958. The value of the investment is estimated at U.S.\$9 millions.

Among other recent developments are that the German Merck interests have acquired land in the State of Rio de Janeiro for a factory to manufacture basic chemicals. The Brazilian Vitronac concern, which is connected with the German Zeiss organisation, is raising capital to increase its output of ampoules and containers for pharmaceutical products, cosmetics, etc. Ormon-terapia do Brasil has been organised to manufacture hormone extracts and other pharmaceutical specialities in Sao Paulo. The American Johnson Co. is installing a factory to process carnauba wax in Ceara. Laboratorios Lederle do Brasil, associated with the American Cyanamid Co., are installing plant at Rezende, Rio de Janeiro, for the production of antibiotics and other drugs, both for the home market and for export.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," April 18

For deodorants for personal use (5)

NILL, 743,378, by Cullingford of Chelsca, London, S.W.10.

For all goods (5)

SANAFOS, 748,353, by Genatosan, Ltd., Loughborough, Leics. MYASERPIN, 749,272, by The British Drug Houses, Ltd., London, N.1. MEVASINE, 749,969, by Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts.

For pharmaceutical preparations for stimulating the liver (5)

BILEVAC, 746,179, by Union International Company, Ltd.

For inhalation anaesthetics containing fluorine compounds (5)

FLUOROMAR, 746,361, by Air Reduction Co., Inc., New York, U.S.A.

For pharmaceutical and veterinary preparations and substances all for use in the treatment of worms (5)

NEMADIS, 746,607, by Crown Chemical Co., Ltd., Lamberhurst, Kent.

For medicated creams for use in the treatment of ailments of the skin (5)

MEDICREME, 746,860, by Racasan, Ltd., Ellesmere Port, Cheshire.

For pharmaceutical preparations in liquid form for human use for slimming (5)

SLIMOVIGAR, 746,846, by Marela, Ltd., London, E.1.

For pharmaceutical, veterinary, and sanitary preparations and substances; disinfectants; antiseptics; preparations for killing weeds and destroying vermin; and insecticides (5)

LYPTAIRE, 748,994, by London Soap and Chemical Co., Ltd., London, S.E.1.

For insect destroying preparations and insect repelling preparations (5)

SNAX, 747,060, by C. H. Boehringer Sohn, Ingelheim-am-Rhein, Germany.

For pharmaceutical preparations and substances (5)

DECORTISYL, 747,315, by Les Laboratoires Français de Chimiotherapie, S.A., Paris, France.

For veterinary preparations (5)

DISPOLAC, 748,442, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For pharmaceutical substances for human use and for veterinary use, and disinfectants and sanitary substances (5)

INTEVAC, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For medicated skin lotions (5)

PALVIC, 749,342, by E. W. Palmer & Son, Swanley, Kent.

For razor blades (8)

SWORD, 744,513, by Wilkinson Sword, Ltd., London, S.W.1.

For instruments and apparatus for measuring, indicating, recording and controlling temperatures (9)

THERMAL-TROL, 747,928, by Ether, Ltd., Birmingham, 24.

For instruments and apparatus for use in dental surgery (10)

KOMET, 746,708, by Dental Instruments & Accessories, Ltd., London, W.1.

For rubber closures and rubber stoppers, all for containers (17)

SEALETE, 746,070, by Wm. Freeman & Co., Ltd., Barnsley, Yorks.

For feeding receptacles for animals and poultry (21)

STURDIBIN and STURDIBOX, 747,182-83, by Walter Gregory & Co., Ltd., Wellington, Somerset.

For hot-water bottles; and small domestic utensils and containers (not of precious metal or coated therewith) (21)

SUBACOSY, 749,066, by William Freeman & Co., Ltd., Barnsley, Yorks.

For bathing caps (25)

AQUAFORT, 746,644, and AQUASEAL, 746,646, by Dunlop Rubber Co., Ltd., Erdington, Birmingham.

For flavouring essences (other than essential oils) (30)

CRENDOLA, 748,926, by Thornton & Ross, Ltd., Huddersfield, Yorks.

For agricultural products and grains (31)

Device with the words STAR NEAVITA, 746,197, by Neave's Food, Ltd., Fordingbridge, Hants.

From the "Trade Marks Journal," April 25

For chemical substances used in industry (1)

Device with the word DOW, 732,395, by Dow Chemical Co., Midland, Michigan, U.S.A. TRYMOL, 743,606, by Howards of Ilford, Ltd., Ilford, Essex.

For bentonite, mixtures of bentonite, and chemical substances, all being for use in industry (1)

Device with the word CHEMPRODUX, B739,713, by Production Chemicals (Rochdale), Ltd., Manchester.

For chemical products for use in manufacture; and chemical preparations in liquid form for use in the industrial treatment of metals to render them resistant to corrosion (1)

ALTOSEAL, 743,193, by Solvolene Lubricants, Ltd., London, S.E.8.

For anti-freeze preparations, etc. (1)

ASP, 741,107, by H. Sells & Co., Nottingham.

For chemical substances used for obliteration in photography, printing and typing (1)

SNOPAKE, 744,893, by Battelle Development Corporation, Columbus, U.S.A.

For chemical products for use in the treatment of water (1)

AQUALOID, 745,896, by Colborne Engineering Co., Ltd., London, W.3.

For chemical substances used for obliteration in processes in the treatment and coating of metal (1)

PARCOLENE, 747,837, by Pyrene Co., Ltd., Brentford, Middlesex.

For rubber adhesives (not stationery) (1)

JOYNTTEX, B748,483, by H. Robinson & Co., Belfast, Northern Ireland.

For plastics in the form of powders, pastes, liquids, emulsions, dispersions, pellets and granulates for industrial purposes (1)

DELTON, by British Oxygen Chemicals, Ltd., London, S.W.1.

For chemical charges for fire-extinguishing apparatus (1)

Device, 748,335-36, by Nu-Swift, Ltd., Elland, Yorks.

For industrial adhesives (1)

POLY-LOK, 749,837, by National Adhesives, Ltd., Slough, Bucks.

For desiccants being chemical substances for use in absorbing atmospheric moisture in containers, etc. (1)

DYDRA, 749,499, by Dydra, Saint-Mammes, France.

For food preservatives (1)

BIOSTAT, 749,508, by Chas. Pfizer & Co., Inc., Brooklyn City, U.S.A.

For photographic plates, paper and films, all being sensitised; and for photographic chemicals (1)

JUMBO, 749,853, by Johnsons of Hendon, Ltd., London, N.W.4.

For non-medicated toilet preparations; and preparations for the hair (3)

CRISMA, 740,882, by Domestos, Ltd., Newcastle-upon-Tyne.

For all goods (3)

PROGENE, 740,888, by Domestos, Ltd., Newcastle-upon-Tyne. HUSH, 749,667, by Thomas Hedley & Co., Ltd., Newcastle-upon-Tyne.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday May 6

NATIONAL PHARMACEUTICAL UNION, Area meeting for Bedfordshire, Buckinghamshire, Cambridgeshire, Essex, Hertfordshire, Huntingdonshire, Middlesex, Norfolk, Suffolk and London (north of the Thames), Palace hotel, Southend-on-Sea. At 11 a.m., church service; at 12.30 p.m., lunch; at 2.15, ladies' excursion; at 2.30, area meeting; at 4.30, tea; at 5, area meeting (continued).

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Green Man hotel, Navestock Side, at 11 a.m. Car rally.

Monday, May 7

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial hotel, Hull, at 1.30 p.m. Luncheon club.

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Department of Pharmacy, Blackburne Place, Liverpool, at 10.40 a.m., Professor M. Piette (faculty of pharmacy, University of Paris) on haematology, including the use of blood as a medicine and the laboratory examination of blood; at the Adelphi hotel, Liverpool, at 8 p.m. Mr. Charles Ahr (vice-president, Pharmaceutical Syndicate of Rheims) on "The Role of the French Pharmacist in the Field of Medical Analysis."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, public library, Beckenham, at 8 p.m. Annual meeting and members' evening.

Tuesday, May 8

MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, medical school, Manchester University, at 3.15 p.m., Professor Maurice Piette (professor of haematology, University of Paris) on haematology, including the use of blood as a medicine and the laboratory examination of blood. At the Midland hotel, Manchester, at 7.45 p.m., Mr. Charles Ahr (vice-president, Pharmaceutical Syndicate of Rheims) on the systems of payments for medicines under the French social security scheme. Attendance is not limited to Branch members or university students; lectures are being given in English and discussion is invited.

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Annual meeting.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, music room, Vigilant Inn, Harton, at 7.30 p.m. Annual meeting and open discussion programme.

Wednesday, May 9

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, Chemical Society's rooms, Burlington House, Piccadilly, London, W.1, at 6.15 p.m. Annual meeting.

UNIVERSITY OF LONDON, Post-graduate Medical School of London, Du Cane Road, London, W.12, at 2 p.m. Professor C. F. Barwell on "The Laboratory Diagnosis of Virus Infections."

WATFORD AND ST. ALBANS BRANCH, PHARMACEUTICAL SOCIETY, University College Hospital, Gower Street, London, at 3 p.m. Visit, followed by a dinner and theatre party.

Thursday, May 10

LEES BRANCH, PHARMACEUTICAL SOCIETY, Metro-pole hotel, Leeds, at 7.45 p.m. Annual meeting.

MANCHESTER AND SALFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, council chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Annual meeting.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston hotel, Kingston, at 7.45 p.m. Chief yeoman warder Allan Griffin on "The Tower of London."

Friday, May 11

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, board room, Royal Hospital, Chesterfield, at 8 p.m. Annual meeting, consideration of

motions for the Branch Representatives' meeting in London in May, and election of delegates to the British Pharmaceutical Conference meeting in Dublin in September.

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Assembly Rooms, South Street, Exeter, at 7.30 p.m. Annual meeting

SCOTTISH SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, George hotel, George Street, Edinburgh, at 7 p.m. Mr. R. E. Stuckey, B.Sc., Ph.D., F.P.S., F.R.I.C., on "Complexones."

PRINT AND PUBLICITY

Commercial Television

THE following products are being advertised on the days stated:—

MANCHESTER STATION

SUNOAY, May 13: Kolynos.

BIRMINGHAM STATION

SUNOAY, May 13: Colgate dental cream; Kolynos; Fynnon.

THURSOAY, May 17: Gibbs' S.R. tooth-paste (between 8 and 10 p.m.).

FRIOAY, May 18: Kodak film (between 8 and 10 p.m.).

SATURDAY, May 19: Silvikrin liquid shampoo; Colgate dental cream; Fynnon.

LONDON STATION

SUNOAY, May 13: Beecham's pills; Loxene medicated shampoo; Colgate dental cream; Kolynos.

THURSDAY, May 17: Gibbs' S.R. tooth-paste (between 8 and 10 p.m.).

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; †Tax 90 per cent.

F. C. CALVERT & CO., LTD. (from May 1)

	Doz.	I.R.P.
Dento*	16 4	2 3 4
No. 5 disinfectant 8 oz.	10 6	1 2 4
Lypene disinfectant 8 oz.	10 6	1 2 4

EUCRYL, LTD. (to trade from May 1, to public from June 1)

Eucryl tooth-powder	7 3	1 0 R
denture powder	7 3	1 0 R

EVANS MEDICAL SUPPLIES, LTD.

Heparinised tubes (10 mils)	Each	
3	4 0	6 0 A

Calcium heparin 100,000-unit vial

75 0 A

Lithium heparin 100,000-unit vial

75 0 A

GLAXO LABORATORIES, LTD. (from May 1)

Cortelan intramuscular injection 10-c.c. vial	13 1½	17 6 A
eye drops 3-c.c. vial	3 9	5 0 A

(Prices for all other Cortelan and Ef-Cortelan products are unchanged.)

PAINES & BYRNE, LTD. (from April 30)

Pabryn proteolysed liver

5 oz. 12 6 16 8 A

Pabryn heparin

5 c.c. 1,000 i.u./c.c. 4 4 6 6 A

5,000 i.u./c.c. 16 0 24 0 A

25,000 i.u./c.c. 76 0 114 0 A

REYNOLDS & BRANSON, LTD. (correction)

Reserpine tablets

0.25 mgm. 1,000 28 0

ROCHE PRODUCTS, LTD. (from May 1)

Benerva tablets:

3 mgm. 25 1 6 R

100 3 3 R

500 11 3 R

1,000 20 3 R

10 mgm. 25 2 0 R

100 5 0 R

500 20 6 R

25 mgm. 25 3 3 R

100 10 0 R

500 45 0 R

50 mgm. 25 5 0 R

100 16 9 R

500 80 0 R

100 mgm. 25 7 9 R

100 28 0 R

500 136 0 R

THE DISTILLERS CO. (BIOCHEMICALS), LTD. (from April 30)

Distafed Riboflavin supplement No. 1 50 lb. 104 2 137 6 R

FRIDAY, May 18: Beecham's pills; Kodak film between 7.55 and 10.5 p.m.).

SATURDAY, May 19: Silvikrin liquid shampoo; Kolynos; Knight's Castile soap.

Advertising Campaigns

BIOMETICA, LTD., Park Road, Barnet, Herts: Pinaud products. In *Punch* (May 26, June 16). *Men Only* (May, June), *Man About Town* (June), *The Times* (May 19, June 2, 16, 30), *Daily Telegraph* (May 12, 26, June 9, 23), *Evening Standard* (London) (May 19, June 2, 16, 30).

EVER-READY RAZOR PRODUCTS, LTD., The Hyde, London, N.W.9: Pal products. In national daily and Sunday newspapers, selected magazines.

J. C. GAMBLE & CO., LTD., 209 Blackfriars Road, London, S.E.1: Odo-Ro-No. In *Daily Mirror*, *Sunday Pictorial*, *Woman's Sunday Mirror*, *Reveille*, women's leading and large circulation magazines

JOHNSON & JOHNSON (GT. BRITAIN), LTD., Slough, Bucks: Band-Aid dressings. In *Daily Express*, *Daily Mail*, *Daily Mirror*, commencing May 14; on cinema screens May-October.

L. ROSE & CO., LTD., Grosvenor Road, St. Albans, Herts: Rose's diabetic orange squash. In *Diabetic Journal*, medical publications.

Price Lists

COLGATE PALMOLIVE LTD., 145 Charing Cross Road, London, W.C.2: Retail, April 1956. P. 1.

P.A.T.A. PROTECTED LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

B. HOOPER & CO., LTD.

Ilox eye bath*	10 0	1 6 A
lotion large*	28 0	4 0 A

ADDITIONS TO PROTECTED LIST

THE MIDDLESEX LABORATORY OF GLANDULAR RESEARCH, LTD.

Chilnic chilblain tablets*

26 0 3 6 A

Juvigold tonic*

27 0 3 9 A

45 9 6 3 A

108 0 15 0 A

Each

18 0 29 6 A

Doz.

11 3 1 7 A

21 9 2 11 A

Nervigest tablets*

21 9 2 11 A

NEW PRODUCTS AND PACKS

BOOTS PURE DRUG CO., LTD.

Streptoduocin Viules

6 x 2 mils 15 0

100 x 2 mils 244 0

CLAY & ABRAHAM (MNF.G.), LTD.

Radosene balm* 2 oz. 23 0 3 6

COUNTY CHEMICAL CO., LTD.

Chemico household cleanser

kg 26 8

white cleanser kg 26 0

hand cleanser kg 24 8

D.D.D. CO., LTD.

Cosmedin† 10 0 2 0

25 0 5 0

J. C. GAMBLE & CO., LTD.

Odo-Ro-No stick deodorant* 16 8 2 6

C. F. GERHARDT, LTD.

Each

Dethmor plus bait 1 lb. 2 4 3 6

3 lb. 5 0 7 6

7 lb. 10 0 15 0

GLAXO LABORATORIES, LTD. (from May 1)

Suavitil tablets 1,000 27 9 37 0

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.

Reserpex tablets

0.1 mgm. 100 46 0 5 9

500 208 0 26 0

0.25 mgm. 100 102 0 12 9

500 480 0 60 0

MEDICO-BIOLOGICAL LABORATORIES, LTD.

Antipeol ointment* 19 0 25 3

E. SALLIS, LTD.

Eesiness Vernon light-weight nylon surgical stocking 35 6



'Marzine'
is going
a long way

'MARZINE' is already the choice of experienced travellers. Now national advertising is bringing **'MARZINE'** to the notice of all who contemplate travelling, whether for business or pleasure.

During the peak travel period, **'MARZINE'** advertisements will be appearing in the following newspapers and magazines:

Daily Express	Sunday Express
Daily Telegraph	Readers Digest
Sunday Dispatch	Daily Mail
Sunday Times	Observer
Daily Mirror	Sunday Pictorial
News Chronicle	

Special advertisements for parents are scheduled for:

Parents · Wife & Home · Woman & Home
Family Doctor · Nursery World

This nation-wide campaign is going to rocket sales of this effective, swift and safe travel sickness preventer.

'Marzine'
TRADE MARK
stops travel sickness

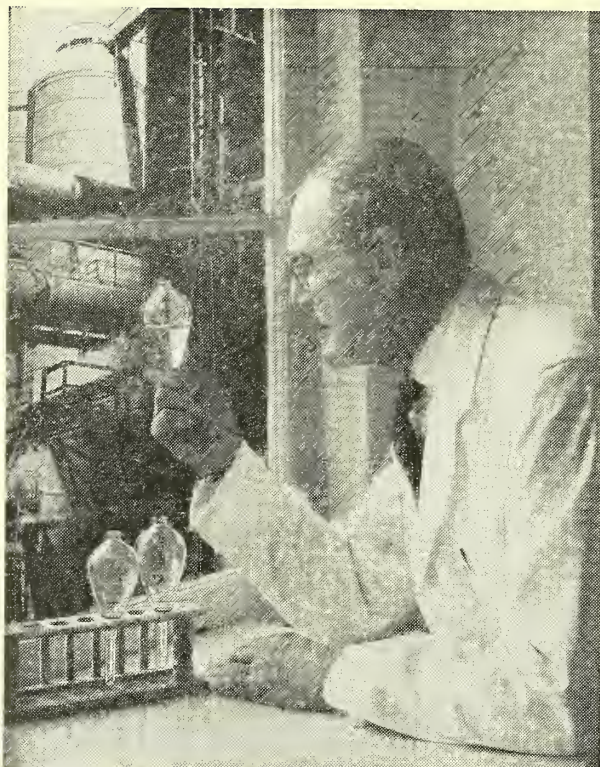
**BUILD UP YOUR STOCKS
NOW AND BENEFIT
FROM THE
BONUS OFFER**

**Orders for 3 dozen or more
carry a bonus of one
free tube with each dozen**

**Retail price
2/6d. per tube**



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON



'If it were not for these little things...'

'...we wouldn't get far with that plant. It's the research work that produces the new motor fuels and new additives, and gives the motorist his extra speed and smoother running.'

'...and it's the scientific glassware in the laboratory that counts for most in all initial pilot work. This glassware **must** be reliable, **must** be precise, **must** be strong. A broken measure in the middle of an experiment may ruin everything!'

'That's why we always use 'PYREX' Brand Glass in our Laboratories. It is heat and acid proof, and with its low coefficient of expansion it can be made so robust that breakages are few and far between.'

'PYREX' brand laboratory glassware
is made only by James A. Jobling & Co. Ltd.,
Sunderland

Large new catalogue **FREE**

Send name, address and position in firm



JAMES A JOBLING & CO LTD
Wear Glass Works Sunderland

THE ONLY MAKERS OF 'PYREX' BRAND GLASS IN THE UNITED KINGDOM

CENTENARY 1845-1945



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
HYPOSULPHITE SODA
SULPHITE SODA
(Crystals and Anhydrous)
EPSOM SALTS B.P.
GLAUBER SALTS B.P.
PRECIPITATED SULPHUR B.P.
ACCUMULATOR ACID

Enquiries Invited

JOHN RILEY & SONS, LTD
HAPTON, NR BURNLEY

Grooms: "Rileys" Hapton

Phone: Padiham 290/4

MODERN EQUIPMENT



"WEBSTER'S"
STAINLESS STEELWARE

ISAAC WEBSTER & SONS LTD.
ABBAY WORKS

TELEPHONE
51580
LEEDS

KIRKSTALL
LEEDS. 5.

TELEGRAMS
"ISAAC WEBSTER"
KIRKSTALL

**Bigger than ever
Advertising Campaign...**

including **HALF PAGE**
in the **DAILY EXPRESS**

TO MAKE EVEN MORE POPULAR THE FAMOUS

Submarine **TRIDENT**

THE MOST Comfortable SWIMMING CAP EVER PRODUCED

Manufactured from specially compounded low-modulus rubber, giving featherweight comfort with maximum elasticity. The resilient suction cups mould themselves to every contour of the head making the cap completely watertight. The ear pieces protect the ears from pressure.

6'6

Submarine **SKELETON**

Made specially for men who like or need ear protection. Adjusts to fit any head size. Black only.

6'6

Send us your card or bill head pinned to this page for a representative to call.

W. W. HAFFENDEN LTD., RICHBOROUGH RUBBER WORKS, SANDWICH, KENT

Telephone Sandwich 3381/2

The Submarine Range
comprises Clipper 2/9d.,
Standard 3/3d., Penguin
3/11d. and Seal 4/11d.

Pack it in a

BETTS collapsible tube

For Rigid Containers
in Aluminium,
Collapsible Tubes in
Tin coated lead,
Aluminium and other
Alloys, and Capsules
in Tin/Lead,
Aluminium and
Pleated Aluminium.

Look at what the BETTS service offers:
technical advice on your packing problems;
designing, drawing and printing; storage
facilities and part delivery as necessary.
Special storage for delicate or hygienic tubes,
advice on filling machinery; first class
materials and superb workmanship—a
service backed by 150 years of experience.
All types of collapsible tubes and containers
to special specifications—write for details.

BETTS
AND COMPANY LIMITED

HOLLOWAY MILLS, ELTHORNE RD., LONDON N.19

Telephone: ARCHway 4361

LONDON • COLCHESTER

BORDEAUX • PARIS • MARSEILLES

PRIDE *THERE IS NO SUBSTITUTE FOR*
SPRAYING LIGHT LACQUER

IN THE **NEW SUPER-SPRAY**

26/- doz.
retail 3/9 each

This really fast selling **NATIONALLY ADVERTISED** product shows over 75% profit on cost. Packed in this new sensational spray, cartoned and displayed, 20% more content, with an exceptional hard wearing flexible bottle.



IMPORTANT LINES IN THE PRIDE RANGE

Pride Lacquer Refills, in smart plastic sachet. Retail 2/6 each.

Pride Perfumery Essence. Retail 1/3 each.

Pride Spraying Brilliantine. Retail 3/9 each.

PRIDE BRILLIANT GLITTERS, in six attractive colours. Retail 2/3 each.

PRIDE COLOUR STREAK, in six colours. Retail 3/9 each.

PRIDE EGG AND LEMON Shampoo in 3 shampoo tubes. Retail 9d. each.

In 24 shampoo Plastic Injector Dispenser. Retail 3/9 each.

From your usual wholesaler or direct

B. N. FURMAN (Productions) LTD., LONDON, N.4

Grey Hair?
SSS!!!



Perfectly Harmless

Keep it DARK with SHADEINE

Still the best hair tint. In all natural Shades. Stocked by all wholesalers. Trade Prices: 1 oz, 21/- per doz; 2 oz. 36/- per doz. Purchase Tax 90%. Retail Prices: 3/11 and 6/8½ per bottle respectively.

**YOUR
SALES
ARE
ASSURED
IF YOU
STOCK
SHADEINE**

GOLDEN SHADEINE—2 oz. size at 21/- per doz. Purchase Tax 90%. Retailing at 3/11 per bottle.



THE SHADEINE CO. LTD.

49 CHURCHFIELD ROAD, ACTON, LONDON W.3

The Best costs no more!

when ordering **ZINC OXIDE**
insist on —

FELLING
ZINC OXIDE B.P.

AND GET THE

Highest Standard of Purity

WHOLESALE ONLY SUPPLIED

ENGLISH MANUFACTURE

USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

H. LATTIMER

22, UPPER GROUND,
BLACKFRIARS, LONDON S.E.1

Telephone: WATERLOO 5800

Manufactured by **FELLING ZINC OXIDE CO., LTD.**

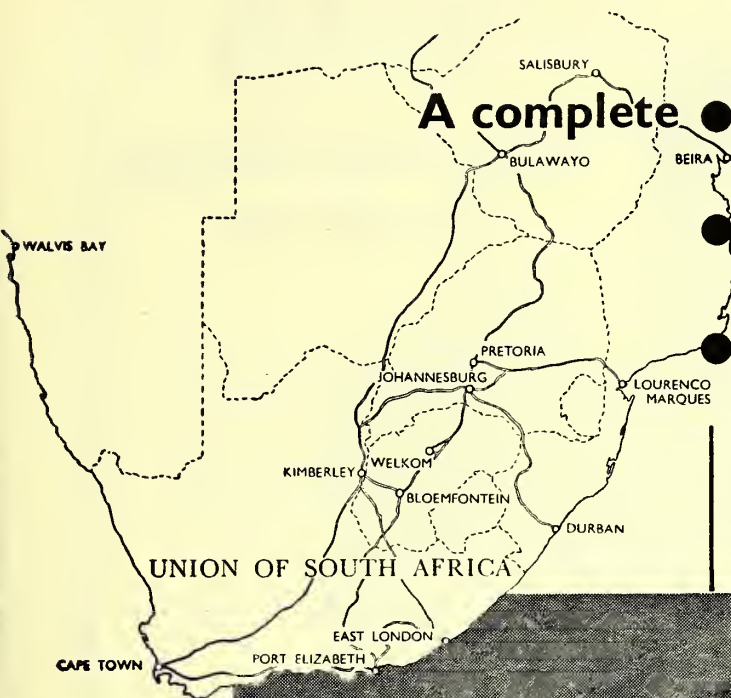
'SURCO'

**SURGICAL ELASTIC
HOSIERY**

**SEAMED. SEAMLESS.
TWO-WAY STRETCH.
ELASTIC NET.**

**SURGICAL BELTS
TRUSSES AND SUNDRIES**

Over 60 years' service of everything surgical
SURGICAL HOSIERY CO., LTD.
 Russell Street, NOTTINGHAM
 Telephone No. 75903 Telegrams: Surgical Notes



A complete ● MANUFACTURING ● PACKAGING & ● DISTRIBUTIVE

*service covering South
Africa and the Rhodesias.*



A. J. North & Co. Ltd., has been established in South Africa for over 50 years, *knows* your South African market.

A. J. North has a 26,000 square feet factory to make your products in South Africa, and can offer a full manufacturing and packaging service.

The A. J. North factory is at East London, a port of entry specially chosen for its ready access by rail, road, sea and air to all centres in Southern Africa.

A. J. North has a complete sales organisation, manned by 22 experienced salesmen, to sell and distribute your products in Southern Africa.

A. J. North is one of the biggest concerns of its kind in **Southern Africa**. The reputation of your products is backed by A. J. North's *established* reputation.

*To Sell Throughout Southern Africa,
Through One Organisation, Consult —*

A. J. NORTH

and Co. Ltd.

P.O. Box 716, Cape Town
South Africa

Head Office: Cape Town
Branches and Stock Depots: Johannesburg,
Durban, Port Elizabeth, East London,
Bloemfontein and Bulawayo.



Synthetic Fine and Pharmaceutical Chemicals

A Selection from our Range

ACETANILIDE
ACETOPHENONE
AMYL CINNAMIC ALDEHYDE
ANETHOLE
ANISALDEHYDE
AZO BENZENE
BENZALDEHYDE
BENZOIC ACID
BENZOYL CHLORIDE
BENZYL ACETATE
BENZYL ALCOHOL

BENZYL BENZOATE
BENZYL CHLORIDE
BENZYLIDENE ACETONE
BROMSTYROL
CINNAMIC ALDEHYDE
CITRAL
CITRONELLOL
COUMARIN
DIPHENYL METHANE
EUCALYPTOL
EUGENOL

GERANIOL
GUAIACOL
HYDROXYBENZOIC ESTERS
HYDROXYCITRONELLAL
IONONE
LINALYL ACETATE
METHOXY ACETOPHENONE
PHENYLACETAMIDE
PHENYLACETIC ACID
ROSONE
SODIUM BENZOATE

W. J. BUSH & CO. LTD

LONDON, E.8 · ENGLAND

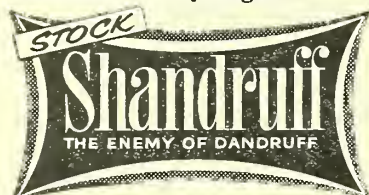
Telephone No.: Clissold 1234

Factories: Hackney, Mitcham, Widnes, Tottenham, Witham
Branches: New York, Montreal, Johannesburg, Melbourne, Auckland.

You must sell this
6^D
sachet!



The big demand for Shandruff, the enemy of dandruff, is growing every week—it is a lovely shampoo which does what is claimed for it and is the only 6d. sachet of its type now on the market. Don't leave it any longer.



These neat little counter display cards will aid your sales.

Price 42/- per gross sachets, plus P.T. AVAILABLE ON SALE OR RETURN
From your usual wholesaler or

VINES BIOCRIN LIMITED
222-224, HARROW ROAD, LONDON, W.2
Telephone: CUNningham 1172-3

The Oldest Specialists in the Trade

PILLS & TABLETS, CAPSULES &
GALENICALS, OINTMENTS, ETC.
BULK OR PACKED — HOME & EXPORT
Official preparations promptly supplied.
Customers' own formulæ are our speciality.
Price list or quotations on request.

CASTLE HUSKISSON LTD.
SWINTON WORKS · MOON STREET,
ISLINGTON, LONDON, N.I.

Phone: CANonbury 3466 & 4006
Established 1768

CASTLE BRAND

PRICES REDUCED FOR HARDWOOD APPLICATORS

100 boxes and over 3/- per box, 50 to 99 boxes 3/3 per box,
under 50 boxes 4/- per box.

Standard pack, 6 gross to a box.

IMMEDIATE DELIVERY FROM LONDON STOCKS

TONGUE DEPRESSORS

LOWEST PRICES SINCE THE WAR

Size 6in. x 3/4in. x 2mm. thick. Danishbeech, perfectly finished.
Boxed 100's. Minimum order 10,000.

Wholesale Houses only supplied.

ASHWOOD TIMBER INDUSTRIES LTD.
Specialists in Veneer and Plywood Products for all Trades.
IBEX HOUSE, MINORIES, LONDON, E.C.3
Tel.: ROyal 2494 Cables: ASHTIM, LONDON

TRESS Sales are mounting week by week...

**STOCK IT...
DISPLAY IT...
SEE HOW IT SELLS!**

TRESS

The new kind
of wave-set
that sets
the pace
of wave-set
sales

TRADE PRICE
14/5d. per doz.

90% Tax

RETAIL PRICE
2/10½d. per bottle



SALES OF BEAUTY PRODUCTS



TRILL

The new brush-on hair
beautifier for dry and
broken hair

TRADE PRICE 13/8d. per doz. 90% Tax

RETAIL PRICE ... 2/8d. per tube



COLORAL

HAIR COLOUR RINSE

TRADE PRICE 6/3d. per dozen cards. 90% Tax

RETAIL PRICE 1/3d. per card of two rinses

GOLDEN LTD., Now at 7 GROSVENOR STREET, LONDON, W.1. HYDe Park 1671

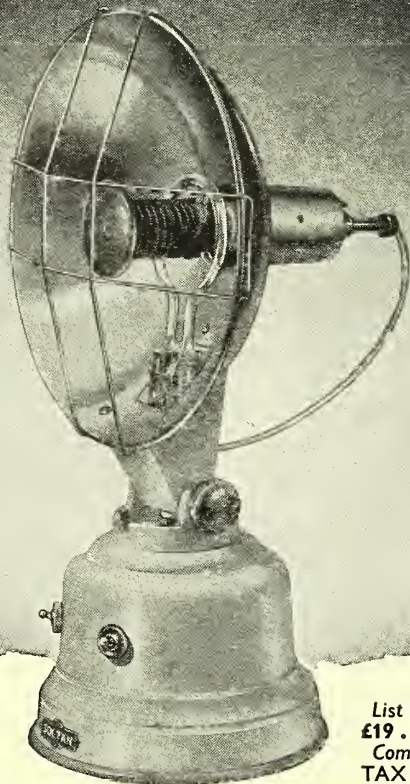
Trade Enquiries for the Republic of Ireland should be addressed to Lillier Pharmaceuticals, Ltd., Santry, Dublin

CHESLEY

'SOL-TAN' 'TRIPLERAY'

ULTRA VIOLET • RADIANT HEAT • INFRA RED

**POPULAR for HOME
and PROFESSIONAL USE**



'Sol-Tan'
"TRIPLERAY"
Model
100/23 TM

List Price
£19. 15. 0
Complete
TAX FREE

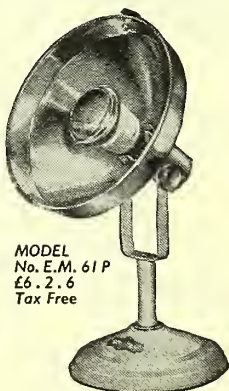
Supplied only under Doctor's prescription

A Sol-Tan for every Purse and Purpose

For home, professional and hospital use "Sol-Tan" produce a wide range of Health Lamps and Electro Medical appliances. They are scientifically designed, fully tested and guaranteed for 12 months. Ask for details of the tax free Infra-Red Table model selling at the low price of £3. 10. 0.



Write for details and Catalogues to
THE LONDON COMMERCIAL ELECTRICAL STORES LTD.
20-23 Cursitor Street, London, E.C.4



MODEL
No. E.M. 61 P
£3. 2. 6
Tax Free

Infra-Red Table Model.
Long or Medium Wave.
Only sold against
Doctor's prescription.



—on show they sell

Try it for yourself

NYLON AND BRISTLE 1/8 & 2/3

All you have to do is display. Spa toothbrushes sell themselves. Spa caters for the discerning consumer and for the retailer who wishes to offer his customer something better than the ordinary run of toothbrushes.



Order • Display • Sell

THE ASTONISHING **"FELITA"**

Made in Germany by Vredeborch

- 12 exposures on 120 film
- Built-in yellow filter
- Shutter speeds B1/25th & 1/50
- Rangefinder shoe & tripod bush
- Fully flash synchronised
- All metal outer casing
- Focussing lens
- Lens cap

***THIS IS THE CAMERA
FOR THE PHARMACIST!***

RETAIL PRICE

76/1d.

including P. Tax 21/4d.

Ever-Ready case

20/-

including P. Tax 5/8d.



Order one today from:

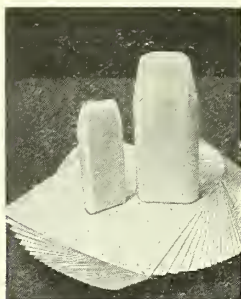
Messrs BUTLER & CRISPE LTD.

80-84 Clerkenwell Rd., London, E.C.1.

Messrs BREMNER-WHITE LTD.

13 Elm St., Newcastle on Tyne, 4.

FOR YOUR BOTTLE WRAPPING

**Certor** ^{Regd.}
**DISPENSING
PARCHMENT**

for all sizes of bottles, is a good, strong, crisp paper, easy to handle, and pure white. It is packed in strong cardboard cartons, holding one ream, and is thus kept flat and in the best condition.

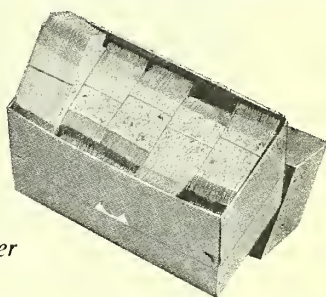
Certor ^{Regd.}
**DISPENSING
SATCHELS**

also make a neat wrapping for your bottles. They are well made, with a good finish. Available in eight sizes, they are packed in strong cardboard boxes which keep them free from creasing and soiling. Each box holds 500.



With a £10 order for Certor Dispensing Parchment you can obtain the Certor Dispensing Parchment Cabinet at half cost (10/6); and with an order for satchels to the value of £8 10s 1d you can get the Certor Dispensing Satchel Cabinet at half cost (6/6). Made of wood, and finished in light oak, both cabinets are proving their usefulness in many dispensaries.

*If it's paper
or made with paper
get it from*

**Certor** ^{Regd.}
PILL & TABLET CARTONS
PLAIN

These are good quality cartons made of white-lined pulpboard. They are useful and economical containers. The outer cartons in which they are packed hold 500. With a £7 order for these cartons you can get a useful cabinet at half cost (5/-). This holds a supply of each of the five sizes in a neat, orderly arrangement.

MACDONALD'S of Manchester

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4



service..

The postman going his round is a familiar sight. We rely daily upon his service and pay perhaps the highest compliment in taking it for granted. Those who rely upon Sumner's for the supply of drugs, galenicals, dressings, instruments and proprietaries know the value of a speedy, reliable and accurate service.

Sumner's

THE NAME FOR SERVICE
R. SUMNER & COMPANY LIMITED
HANOVER STREET · LIVERPOOL
FITZALAN ROAD · CARDIFF

Build up Goodwill with . . .

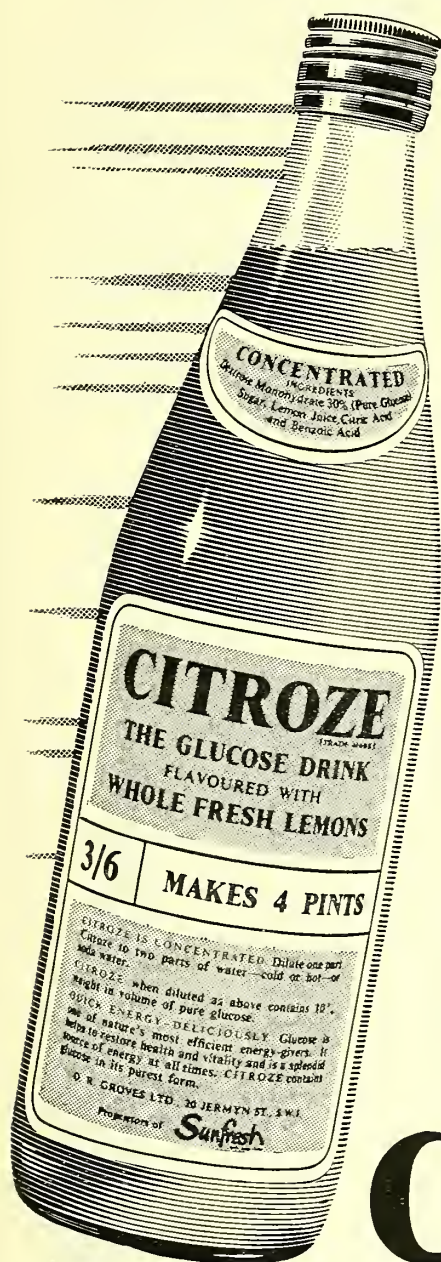
Elasto
THE BIOCHEMIC TABLET

**Many Chemists are
recommending 'ELASTO'
to their customers with
mutually good results.**

PATA

NEW ERA LABORATORIES LTD.
Cecil House, Holborn Viaduct, London

a *NEW* glucose health drink!



- **REPLACES LOST ENERGY DELICIOUSLY**

Citroze is pure, *triple-strength* glucose flavoured with whole, fresh lemons. It brings real *up-and-at'em* energy in its most delicious form.

- **IS MORE ECONOMICAL**

Citroze contains 30% weight in volume of pure glucose. Diluted, two parts of water to one of Citroze, a bottle makes four whole-strength pints!

- **PLEASES MORE PEOPLE**

Add water for a long, cool drink. Add soda-water for a sparkling drink. *Add hot water and you have a steaming, lemon and glucose toddy — just what mother ordered!* No other health drink can please so many tastes.



*Pays
to stock up
NOW*

Brings bigger profits

You make 8/6 on purchases of one dozen
Even more with quantity buying
Get your discounts by combining orders
for SUNFRESH and CITROZE.

This is the season of sniff and snuffle. People need *up-and-at'em* energy NOW. So stock up NOW Citroze moves off the shelves faster than any other health drink you've ever known. Available from Messrs. Sangers Ltd., and associated companies, and other leading wholesale chemists; or write/telephone MESSRS. O. R. GROVES LIMITED, 20 Jermyn Street, London, S.W.1—REGent 7986.

CITROZE

TRADE MARK

for *up-and-at'em* energy

MADE BY THE *Sunfresh* PEOPLE

Form E.C.19

Mr. Raulinson
(name and initials of patient)

Age if under fourteen years

Address The Cedars
Horley Crescent

For use only by
Pricing Office

Chemist's Stamp

**2 Elastic Stockings
2-way stretch**

**In a case like
this.... dispense
BURSON**

Burson Stockings, made exclusively on special knitting looms, are the product of ten years' intensive research into the making of surgical stockings.

Always dispense and recommend Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

Burson Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

DISPENSE BURSON whenever
2-way stretch elastic or
Lastex hosiery is prescribed



AVAILABLE FREE ON REQUEST WITH BURSON STOCKINGS:—

- Instruction Chart with details for measuring, fitting and exact adjustment to fit and tension.
- Individual Measurements and Order Forms
- Instructions for mending and washing.

BURSON
TWO-WAY STRETCH HOSIERY
IS MADE FROM LASTEX YARN

Sole Distributors:—FASSETT & JOHNSON LTD.,
86, CLERKENWELL ROAD, LONDON, E.C.1

There's lots and lots of Rheumatism about!

And plenty of demand for the most reliable general remedy of all—Curicones.

With its present up-to-date formula, it is a remedy you can recommend to all your Rheumatic customers.

This time of year a small counter show of Curicones will bring quite a nice extra trade, while obviously no chemist should ever let himself run out of stock of the 5/5½, 13/8 or 26/2½ size.

And make sure, also, that your stocks include Curicones Tablets. These tablets are proving increasingly popular and our free sampling campaign is producing quite a demand in those areas where we are carrying it out.

Your wholesaler can supply you on the same terms as capsules.

CURICONES



AND **PATA**

STEPHEN MATTHEWS & CO., LTD.
19/21 Farringdon Street, London, E.C.4

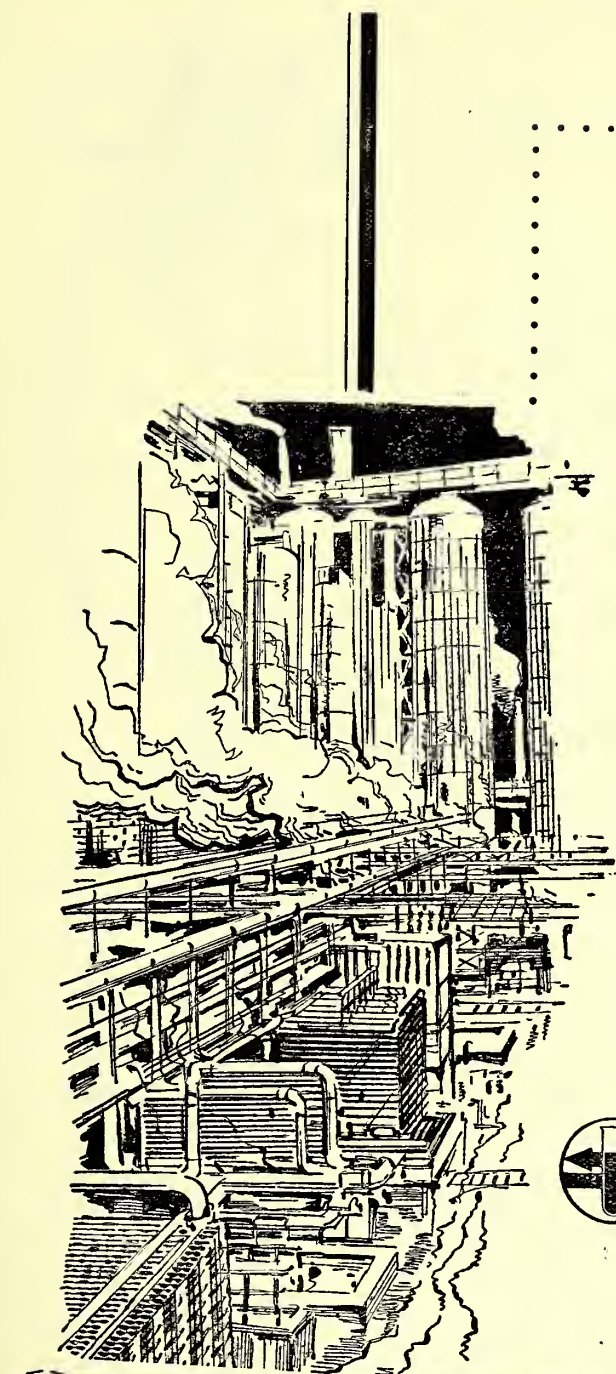
For acidosis...
recommnd

**Rayner's
Lembar**

all the year
hot or cold

Lemons
Glucose
Scotch Barley
Sugar

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18



ALL PRODUCTS

OF

CZECHOSLOVAK

ORGANIC AND

INORGANIC

CHEMISTRY

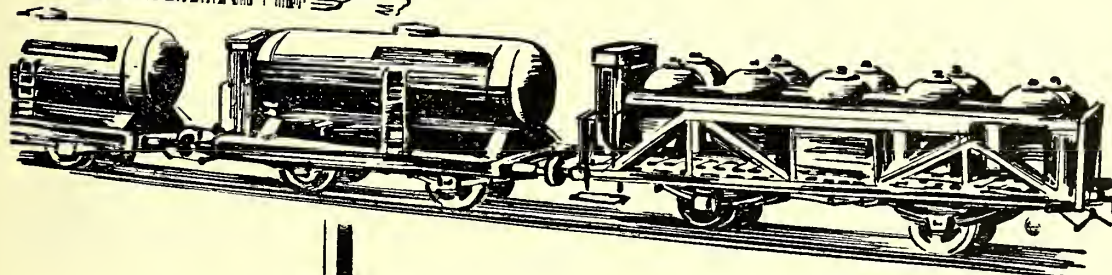
ARE

SUPPLIED BY



CHEMAPOL

Panská 9., Praha II.,
Czechoslovakia



Decilderm

OINTMENT · POWDER
(DUNCAN)

For fungus infections of the skin . . .

In fungus infections of the skin such as tinea pedis (athlete's foot), tinea cruris (dhobi itch), moniliasis, etc., certain higher fatty acids are becoming an accepted treatment.

Undecylenic acid with its zinc salt is present in DECILDERM Ointment and Powder (Duncan), and appears to be the most effective of these acids for fungus infections.

Decilderm Ointment and Powder (Duncan) are easy to apply and the odour of undecylenic acid is hidden by a perfume.

DECILDERM OINTMENT (Duncan) containing undecylenic acid 5%, zinc salt 20%, in 1 oz. tubes.

DECILDERM POWDER (Duncan) containing undecylenic acid 2%, zinc salt, 20%, in 1½ oz. sprinkler tins.

DUNCAN, FLOCKHART & CO., LTD.

104-8, Holyrood Road,
EDINBURGH, 84, Carlos Place,
LONDON, W.1

Kwick-dry

(HOUSEHOLD) PAPER TOWELS

In Perforated Rolls at 2/-

FOR THE MODERN HOUSEWIFE

They save work and drudgery, serving a multitude of purposes in the Kitchen. **FOR DRYING HANDS, POTS and PANS, CLEANING, DRAINING FRIED FOOD, etc.**

Of soft, pleasing, crepe texture, KWICK DRY TOWELS are very absorbent, can be squeezed like a cloth and, being actually stronger when wet, they do not disintegrate. Our attractive Plastic Holders in colours to match Kitchen Units retail at 4/3.

This NEW Hygienic habit is catching on—encouraged by Press advertising.

Attractive Showcards available on request.

Samples and prices from the Paper Specialists:—



FREEDER BROTHERS PAPER MILLS
BRIMSDOWN · ENFIELD · MIDDLESEX

Telephone: HOWARD 1047 (5 lines).

Grams: Sytkocrepe, Enfield

Spring is treacherous.

Lots of customers will be asking you for a remedy for colds and catarrh - sell them

BESORBON

REGD. TRADE MARK

MEDICINAL SNUFF

the proved remedy

Your wholesaler can supply you promptly. Orders of one dozen come in attractive counter display box for

MORE SALES — MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3

FINE CHEMICALS & DRUGS

ADRENALINE	DIASTASE	PHENAZONE
BARBITURATES	FOLIC ACID	PIPERAZINE
BENZOCAINE	PANCREATIN	PROCAINE
CARMINE	PAPAIN	SAFFRON
CAMPHOR	PAPAVERINE	THYROID
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ESSENTIAL OILS

ANISEED, BAY, CAJUPUT,
JUNIPER, PEPPERMINT, ETC., ETC.

DEGA BRAND SPECIALITIES

Terpeneless Oils, Perfume Concentrates

(We manufacture a wide range of floral and speciality type bouquets for all classes of trade.)

MEDICAL & VETERINARY SPECIALITIES**"KADAMYSIN"**

(In boxes of 10 x ml. ampoules)
for bronchial asthma

"DEGALAN"

Ointment and Suppositories
(Boxes of 10) for hæmorrhoids

"DEVATOL-A"

Tablets—an invigorator and
tonic for all domestic animals

CHAS. ZIMMERMANN & CO. LTD.

DEGA WORKS · WALMGATE ROAD · PERIVALE · GREENFORD · MIDDX

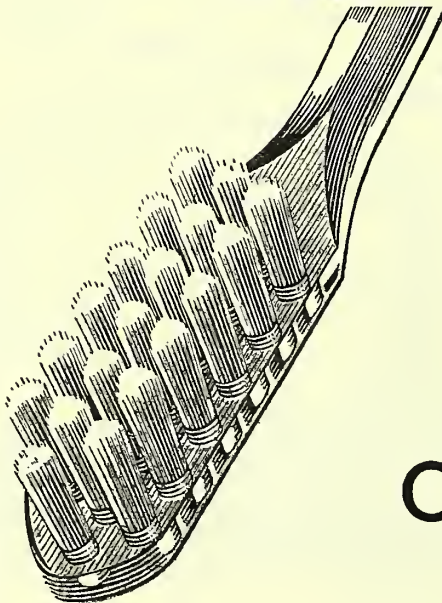
Phone : PERIVALE 9121 (4 lines)

Grams : ACIDOLAN · GREENFORD MIDDX.

Be wise—sell
Wisdom



THE TOOTHBRUSH
THAT MOVES
FASTER
THAN ANY
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**See Your
Takings
Grow!**



Illustrated is
the Two-
total Model

*This is your
hourly book-keeper,
trading register and
adding machine Sub totals
at the push of a button.
Lightning quick cash
balance—*

Itemised receipts

You can establish customer goodwill by issuing an itemised and correctly totalled receipt to each customer. A duplicate copy remains as a locked in record of every transaction.

Sub totals

Your up-to-the-minute turn-over can be obtained at any time during the day by simply pressing a button.

Modern Design

The public likes to see efficiency and efficiency attracts the public. The smart clean line of the Regna Cash Register on your counter takes but half the valuable space occupied by old fashioned machines—compact and super efficient you can be proud of its appearance in your shop.

Increased Efficiency

Visible control detail rolls, clearly printed and easily read. Repeaters and multiples can be

**PRICES FROM
£97 - 10**

H.P. TERMS AVAILABLE

recorded. So easy for any or all counter hands to operate.

A model to suit your need

Various models available to suit your individual requirements. Electrical operation on some models for super-speed.

**SEND NOW for further
information of the particu-
lar model to suit your needs.**

**REGNA CASH REGISTER CO., 27 John
Adam St., London, W.C.2. Tel: TRA 3718**
Scottish Office:—27 Oswald Street,
Glasgow, C.1. Phone: Central 3710



Accountant says:
REGNA accuracy saves me
hours of checking time.



Chemist says:
My two-total REGNA
analyses my takings in a flash.



Garageman says:
REGNA registers my
credit and cash trading.



Grocer says: Faster ser-
vice and accurate charging
with REGNA Itemiser.



Draper says:
I use all REGNA models to
advantage.

REGNA CASH REGISTER COMPANY 27 JOHN ADAM STREET, LONDON, W.C.2

Wonderful **PAL**

For a very limited period from April 16th

- A** 3 cartons of PAL BLUE blades and TWO No. 26 PAL razor sets for 40/- plus 12/- Purchase Tax.

That means 5/4d. extra profit in your pocket

- B** 2 cartons of PAL BLUE blades and ONE No. 26 PAL razor set for 26/8d. plus 8/- Purchase Tax.

That means 2/8d. extra profit in your pocket

That's the deal — two offers with extra profit for you. And we have a two-pronged plan to help you sell both the blades and the razor sets.

Don't miss this wonderful PAL offer — order stocks NOW either from Ever-Ready Razor Products Ltd., The Hyde, London, N.W.9, or from your local wholesaler.

This PAL offer means money in your till

I An extensive advertising campaign will feature both these PAL quality products in the National Dailies and Sundays, and in selected magazines. Strong, hard-hitting advertisements that will be seen by thousands of your customers.



offer!



Make sure of your order now

2 To help you complete the sale, we have prepared a range of forceful advertising material for your shop. Ask for your quota of these sales aids. They will work hard for you — make them work for your profit!





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OOD



OTTLES

UNITED GLASS BOTTLE MANUFACTURERS LIMITED

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Telephone: GERRARD 8611 (18 Lines)

Telegrams: UNGLABOMAN, LESQUARE, LONDON

OVER 100% PROFIT with FAST SELLING KLM SUNBURN CREAM



Popular demand makes this soothing cream an easy seller for the Summer months. KLM Calamine Cream and Witch Hazel is of proved efficiency in the treatment of sunburn, chapped hands, acne, nappy rash, etc. This is your chance to build up goodwill. Prices allow a particularly favourable profit margin.

2 DOZ. TUBES
in attractive
DISPLAY UNIT

RETAIL PRICE—2/6 per tube.
TRADE PRICE—11/- per dozen plus 3/4 Purchase Tax.
6 dozen lots 10/6 doz. + P.T.
24 dozen lots 10/- doz. + P.T.

ATTRACTIVE SHOW CARD WITH 6 DOZ. ORDERS
ORDERS VALUE £2 AND OVER CARRIAGE PAID

D. MAWDSLEY & CO., 64 FAULKNER STREET, MANCHESTER 1

M.I.

Still the most popular Corn remover



DISPLAY NOW



Carnation Corn Caps are well known and sell readily. Over the years they have become very firmly established and more and more widely known through recommendation and national advertising. Demand increases at this time of the year, and a regular prominent display from now until the winter will pay you well. Carnation Corn Caps have been a C.F. line since its inception.

RETAIL 1/1½d PACKET

(INCLUDING TAX)

TRADE 7/6 DOZEN

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£5 AND OVER

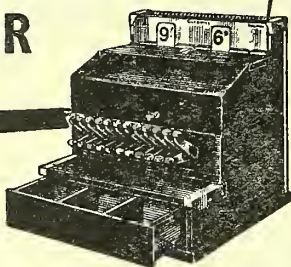
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of any business is
revealed in figures.

Accuracy in accounting is as important to the small retailer as it is to a large Limited Company. For any retail establishment where numerous cash transactions have to be recorded and accurately totalled there is nothing to surpass the trouble-free operation of the GLEDHILL Cash Register.

Full information about this reliable time-saving equipment and the model to suit your business is in the Illustrated Catalogue which will be sent on request.

Don't guess—get a Gledhill

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TRADE **HOSEZENE** MARK
TOWELS

THE HOSEZENE CO. LTD., NOTTINGHAM

MOSANS (EST. 1908)
PREPARATIONS
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A REVISED AND IMPROVED EDITION OF

PHARMACEUTICAL EMULSIONS AND EMULSIFYING AGENTS

By L. M. Spalton, B.Pharm., M.P.S.

New Bound in cloth and fully indexed

TODAY, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment. In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. The book also contains a classified index of over 300 emulsifying agents with reference to their composition, type and uses, together with an index of manufacturers.

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CHEMIST AND DRUGGIST
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Hospital Jar Pack now generally available

Following repeated requests from Clinical sources and the Trade, the HOSPITAL JAR pack of ANTIPEOL OINTMENT — which so far has only been available to Hospitals — is now being offered as a standard packing.

ANTIPEOL CUTANEOUS OINTMENT continues in demand as the outstanding remedy for skin ailments — including many of the more virulent forms of infection.

RETAIL PRICE

20/10d. plus 4/5d. P. Tax 25/3

CHEMISTS' PRICE

14/7d. plus 4/5d. P. Tax 19/-

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CARGREEN ROAD



SOUTH NORWOOD

LONDON, S.E.25

QUESTIONS

- 1 What function has a simple Antacid?
- 2 What function has Bismuth Carbonate?
- 3 What function has Bislumina?

Bislumina

THE UNIQUE COMPOUND

Detailed literature on request from
Sole Distributors in United Kingdom

- 1 Acid neutralisation without control
- 2 Inactivates pepsin protects gastric mucosa and corrects peristalsis
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C. J. HEWLETT & SON LTD.
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In accordance with world patents pending

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HYDROGEN PEROXIDE

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for YOUR business

We have all the correct peg board brackets for displaying the goods you sell. There are many kinds to choose from. Our brackets are supplied in bronze and silver zinc finishes, from 15/- per doz.

PEG BOARDS

First quality. Stove enamelled in black, white, cream, green, burgundy. 8ft. x 4ft. from 56/-.

In natural colour, undecorated from 20/-. Fluorescent letters for peg boards, from 48/- per doz.

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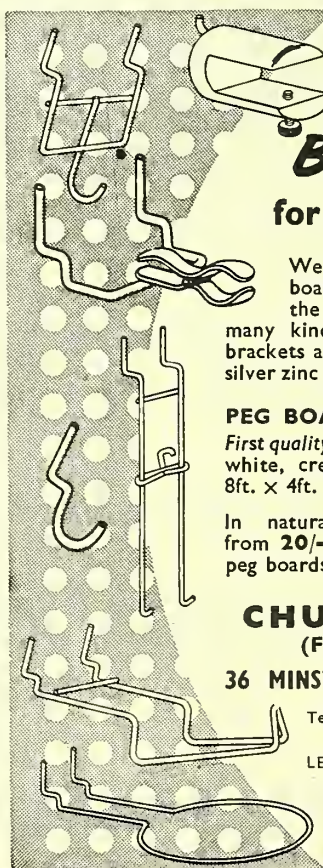
36 MINSTER STREET, READING

Telephone: READING 2035/6

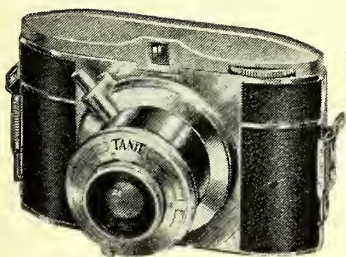
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1753



ferrania film



ferrania TANIT CAMERA

The Ferrania TANIT camera is designed to halve the cost of film by taking 16 instead of 8 pictures on one roll.

It is of an elegant and modern design, strongly resembling an expensive miniature camera, but offered at a remarkably low price. The body is entirely of metal, being pressure die-cast of aluminium alloy, covered in morocco leather.

Picture size 3 x 4 cm. (16 pictures 1½ in. x 1½ in. on the standard 127 film). Camera size: 4½ in. x 3 in. x 2½ in. Weight: 9 ounces. Lens: Ferrania Primar f/9 with focusing scale. Shutter: Ferrania Silent B for instantaneous and bulb exposures. Built-in synchronised flash contacts. Viewfinder: double lens optical type. Supplied complete with 20-page instruction booklet, and carrying strap.

ONLY £3 · 12 · 6

Ever-Ready case 17/6



**Note the prices
You know the quality!**

ROLL FILMS

No.	Exposures	Size in inches	PRICES	
			Ultracromatica	Pancro 32
F. 20	8	2½ x 3½	s. d. 2 8½	s. d. 3 1
F.620	8	2½ x 3½	2 8½	3 1
F. 27	8	1½ x 2½	2 4	2 8½
F. 16	8	2½ x 4½	3 6	3 11
F.616	8	2½ x 4½	3 6	3 11
F. 29	6	2 x 3	2 8½	—
F. 18	6	3½ x 4½	5 4	—
F. 22	6	3½ x 5½	6 4	—
F. 30	6	2½ x 4½	5 4	—

35 mm. FILMS

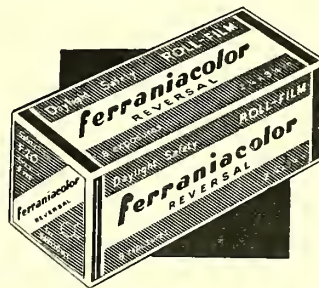
P.3/28 FINE GRAIN PAN and PANCRO 32/S2					PRICES	
					£	s. d.
CASSETTE	36 Exposures	...	...	...		9 2
REFILL	36 Exposures	...	...	...		4 8
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35 mm. Cassettes (20 exposures) 16/-
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Nos. 120 and 620 roll films ... 12/10
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Johnson's Processing Kit:—

Part 1 (Developers) ... 5/6
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Telephone: LAngham 7161 (10 lines)

Display Zoflora on your counter - it's a good steady seller

SELLS ON SIGHT

**EXTENSIVELY ADVERTISED IN
FOREMOST WOMENS PAPERS**

REPEATS ON MERIT



Zoflora

Perfumed Disinfectant

**THORNTON & ROSS
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and all other Botanicals, Gums,
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COLD WATER DYES

30 brilliant, favourite shades. Orders for one gross bring you a free Counter Display Cabinet on request. Easy 'look-and-choose' opportunity for your customers. Shade Cards and Showcards also available.

48/- per gross: Retail 6d. per packet.
Less 5% for cash in 7 days.

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DYE AND CHEMICAL MANUFACTURERS — KENDAL

IT'S GOOD BUSINESS

Helping your Customers to solve their
Rat Control problem

sell **RODINE**
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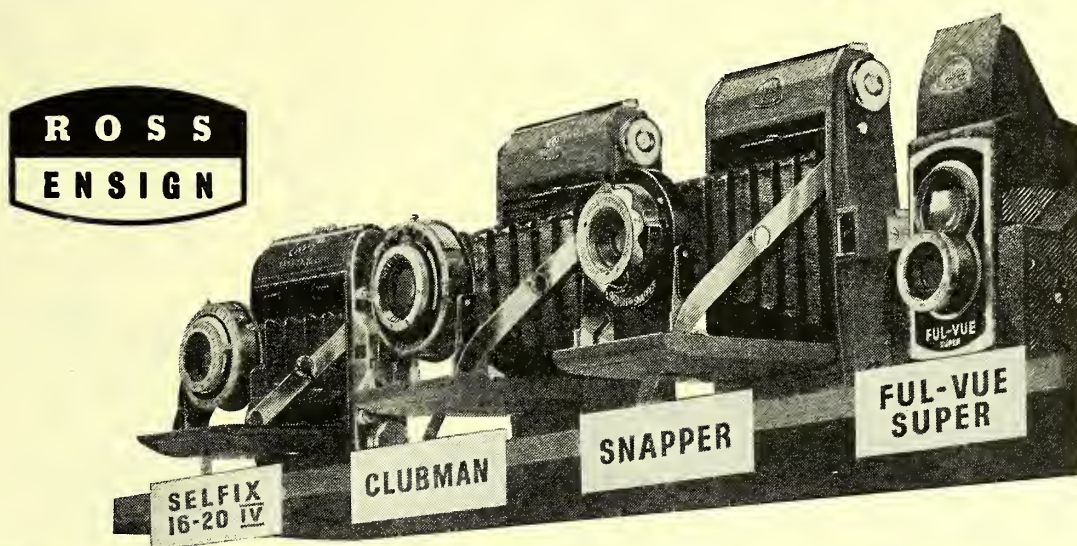
And **RODINE** **PHOSPHORUS**
RED SQUILL



Also RODINE WARFARIN CONCENTRATE.
For CUSTOMERS' SATISFACTION AND
GOODWILL AND GOOD PROFITS.

THOMAS HARLEY LIMITED
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This season as never before the focus is on British made cameras. But it isn't patriotism alone which makes a customer ask for a Ross Ensign model. Rather is it the firm conviction that in Ross Ensign he is getting full value for his money. No other camera range is so nicely graded to appeal to the widest possible market and for this reason the astute chemist will see in the 4 models featured here the main plank of his new season's sales.



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Women today,
**more than ever before,
are believing that . . .**

. . . IF IT'S

Evan Williams

**IT'S GOOD
FOR THE HAIR!**

EVAN WILLIAMS HAIR BEAUTY PREPARATIONS
BRILLANTINE · WAVE SET ·

· SHAMPOOS · COLOUR RINSES
'NEW LOOK' HAIR · CONDITIONING CREAM



You'll be busy with
BRONTAN
REGD. TRADE MARK
SUN-TAN CREAM
THIS SUMMER



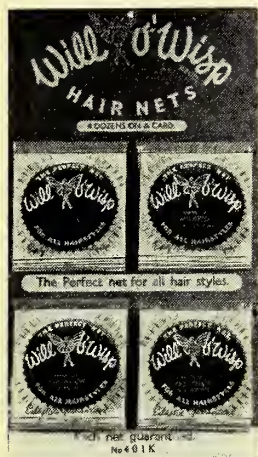
NON-GREASY BRONTAN tans fast and sells fast, and each tube will show YOU a healthy profit. Now's the time to order for your share of this brisk business which will be continual throughout the summer.

Trade Price 10/3 per dozen
(P. Tax 9/2 $\frac{3}{4}$)

Retail 2/1 $\frac{1}{2}$ per tube
(inc. Tax)

Bonus for display, 13 to the dozen on parcels of not less than 3 dozen

JOHN BELL, HILLS & LUCAS LTD., OXFORD WORKS, WORSLEY BRIDGE RD., S.E.26



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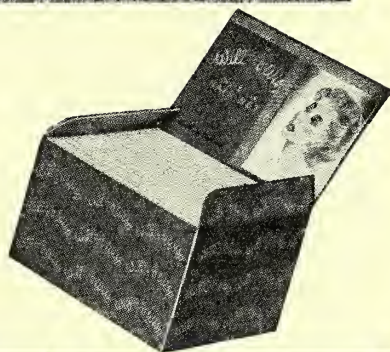
... and to sell them is to make a regular customer! Here is a first-class product supported by attractive displays. Stronger, finer, long-lasting — "Will O'Wisp" Hair Nets, Slumber Nets, etc., sell on sight and repeat on quality.



Will O'Wisp
THE LUXURY HAIR NETS

From your Wholesaler. In case of
difficulty write for nearest supplier:

SIMON, MAY & CO., LTD., NOTTINGHAM. Est. 1849



Fine QUALITY — plus forceful DISPLAY

POLYNASYN[★]

(PITUITARY WHOLE GLAND SOLUTION 12½%)

for the Treatment of
MIGRAINE

Available in Boxes of
SIX 1 ml. AMPOULES
SIX 2 ml. AMPOULES

Reference: Migraine Clinic,
Putney Health Centre Report for 1955.

★ POLYNASYN is a
Registered Trade Mark

Write for literature to:

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(Armour & Company Ltd.)

HAMPDEN PARK, EASTBOURNE, SUSSEX

Telephone: Hampden Park 740

Telegrams: Armolab, Eastbourne



MODINES

For MOTH PREVENTION

NOW IS THE
TIME TO
ORDER AND
DISPLAY

Terms:

Retail Price
1/- per packet

Trade Price
8/- per dozen

Carriage paid quantities:

Minimum 6 doz. 7/9 per doz. 12 doz. 7/6 per doz.

Smaller quantities at 8/- per doz. net, postage extra.

SPECIAL OFFER

One 1/- packet FREE with every dozen ordered during the season. Place your order now through your usual wholesaler or Sole Distributors for England, Wales and Scotland.



DALMAS LTD.

JUNIOR STREET, LEICESTER

LONDON Depots at: GLASGOW

140-142 St. John Street, E.C.1 29 Waterlow Street, C.2

A Product of THOMAS HARLEY LTD.,
RODINE WORKS, PERTH, SCOTLAND



reducing
the
risk of
reducing

PRELUDIN

brand of 2-phenyl-3-methyl-tetrahydro-1,4-oxazine-hydrochloride

*** PRELUDIN—the appetite controlling agent that doesn't raise the blood pressure.** PRELUDIN is the safest possible weight-reducing treatment for all *obese* patients—particularly those with cardiovascular disorders or hypertension. Here, for the first time, is a powerful appetite controlling agent that curbs the appetite, breaks the psychogenic overeating habit, and controls food intake without serious side effects. It enables the patient to lose

weight safely and without mental strain by strengthening adherence to a prescribed diet. PRELUDIN in recommended dosage does *not* raise the blood pressure and does not create excessive mental stimulation. It is the prescription of choice in *all* cases of obesity—especially those with cardiovascular disorders—because it reduces the risk of reducing.

Preludin—the safe prescription for obesity

Preludin tablets are available in tubes of 20 and bottles of 250.

Manufactured and distributed in England by Pfizer Ltd., Folkstone, Kent, for
C. H. Boehringer Sohn, Ingelheim am Rhein,
Registered proprietors of the trade mark.

* Regd. Trade Mark



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BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

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PREMISES FOR SALE

17/6 for 36 words (min.) then 4d. per word
Box 2/-

LIVERPOOL, Linkside Estate, Hunts Cross Avenue, Bottom Manor Road, Woolton. Newly built lock-up shop, flat above if required, on new housing estate Commanding position suitable chemist. Builders, Pierce Williams, 90 Selborne Street, Liverpool, Royal 8681, C 5050

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Box 2/-

THURROCK URBAN DISTRICT COUNCIL NEW SHOPS TO LET

Offers of annual rent are invited from Chemists for a 21-year lease of the following shops on Council's Housing Estates:—

(a) 1 shop in block of five at Gardner Avenue, Corringham (with mutual options to break at 7 or 14 years). Further extensive development in locality anticipated.

(b) 1 shop in block of ten at Calcutta Road, Tilbury (with lessee's option only to break at 7 or 14 years). Redevelopment schemes at present in progress. Shop front already installed.

Living accommodation (3 bedrooms) above, normally available to lessee. Full particulars and forms on which offers should be submitted may be obtained from the Clerk of the Council, Council Offices, Whitehall Lane, Grays, Essex. Offers must be received by noon on May 31, 1956. C 5066

URBAN DISTRICT COUNCIL OF WOKING SHOPS AT MAYBURY ESTATE, WOKING, SURREY

Applications are invited for tenancies of five shops and maisonnettes at present in the course of erection at the Maybury Estate, Woking. Particulars and forms of application can be obtained from the undersigned to whom they must be returned in a plain sealed envelope bearing the words "Tender for shops"; such envelope not to bear any name or mark indicating the sender, not later than noon on May 18, 1956.

The Council do not bring themselves to accept the highest or any tender.

Dated this 16th day of April, 1956,
M. SHAWCROSS,
Clerk of the Council.

Council Offices,
Woking. C 5005

BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

CHESHIRE, PLEASANT PHARMACY with optical connections. Freehold property. Growing area. No opposition. This plum business comes available, only because of managerial troubles, for the first time for many years. Approximate capital required will be £6,000. Owner bitterly regrets this step but it can be someone else's opportunity. Box C 3576.

BUSINESSES WANTED

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Box 2/-

VERY SUBSTANTIAL FIRM requires soap milling, toilet and/or shampoo manufacturing business. Will interested parties communicate with Orridge & Co., 184 Strand, W.C.2, C 5077

APPOINTMENTS

18/- per half inch (min.) and pro rata.
Box 2/-

BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

Assistant in Dispensing

required for new pharmacy department. Apothecaries' Hall Certificate. Whitley salary (with London Weighting) and conditions. Apply to Hospital Secretary. C 5014

BUCKLAND HOSPITAL, DOVER

Assistant in Dispensing

required at the above hospital for period 25th June to the 21st July, 1956 for holiday duty. Salary in accordance with National Scales. Applications in writing to the Hospital Secretary giving names and addresses of two referees. C 5061

CROYDON GENERAL HOSPITAL (Category IV)

Locum Pharmacist

required for indefinite period. Salary up to £15 15s. per week according to experience. Duties mainly in sterile products department. Modern pharmacy, good working conditions. Apply, in writing, to Group Secretary, Croydon Hospital Management Committee, General Hospital, London Road, Croydon. C 5017

CROYDON GENERAL HOSPITAL (Category IV)

Pharmacist

required. Post vacant now. Duties mainly in sterile products department. Rates of pay in accordance with Whitley scales. Modern pharmacy, good working conditions. Apply, in writing, to Group Secretary, Croydon Hospital Management Committee, General Hospital, London Road, Croydon. C 5018

EDGWARE GENERAL HOSPITAL EDGWARE, MIDDLESEX (Category V)

Deputy Chief Pharmacist

Applications are invited for the appointment of Deputy Chief Pharmacist at the above Hospital. The successful candidate will be in charge of the pharmaceutical laboratory. Whitley Council scale of salary and conditions of service, salary scale being £675—£925 p.a. In addition London Weighting is payable. Apply to Group Secretary, Edgware General Hospital, Edgware, Middlesex, stating age, qualifications, details of experience and the names and addresses of two referees by May 9, 1956. C 5030

FULHAM AND KENSINGTON HOSPITAL MANAGEMENT COMMITTEE.

FULHAM HOSPITAL, ST. DUNSTON'S ROAD, HAMMERSMITH, W.6

(1) Senior Pharmacist
(2) Locum Tenens Pharmacist

Senior Pharmacist required June 1, 1956. National salary scales and conditions. Applications stating age, and full particulars, and names of two referees, to Hospital Secretary, immediately.

Locum Tenens Pharmacist required from June 1, 1956. Salary 16 guineas per week. Applications to Hospital Secretary (C.D.53) (Riverside 5407) immediately. C 5085

HOLLOWAY SANATORIUM, VIRGINIA WATER, SURREY (Mental Hospital 750 Beds)

Chief Pharmacist, Category I

Applications are invited for the above post. Salary and conditions in accordance with Whitley Council recommendations. Well equipped and modern department. Apply stating age, experience and naming two referees to the Group Secretary. C 5082

KING EDWARD VII HOSPITAL, WINDSOR

Locum Pharmacist

required beginning of June. Salary £16 16s. weekly. Apply with details of service and names of three referees to Secretary. C 5057

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11 (Acute General Hospital, 510 beds)

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in a department which is being enlarged with consequent increase in the number of staff. Salary (plus London Weighting) in accordance with Whitley Council scale. Applications, stating age, experience, qualifications and names of two referees to the Secretary. C 256

LAMBETH HOSPITAL

Locum Pharmacist

required at Lambeth Hospital, Brook Drive, S.E.11, for indefinite period. Salary 15 gns. per week or according to experience. Phone: Chief Pharmacist, Rel. 3804. C 249

MANSFIELD HOSPITAL MANAGEMENT COMMITTEE

Deputy Chief Pharmacist (Category IV)

required for the new Group Pharmaceutical Department at the King's Mill Hospital, Sutton-in-Ashfield, Nottinghamshire.

Whitley Council salary and conditions of service, £625, rising by annual increments to £850, plus £25 for higher qualification. The Department may be inspected by arrangement with the Group Chief Pharmacist. Living accommodation for a single person (male or female) is available on the premises, if required.

Applications, together with names of two referees, should be sent to the Group Secretary, "Oak Bank," Crow Hill Drive, Mansfield, Notts. C 5058

LITTO Preparations

are now being manufactured by

VINES BIOCRIN LTD.

222-224 HARROW ROAD, LONDON W.2

to whom all orders and enquiries should be addressed

PATCHOID, CREMARD**SEBACOID, TINTAS,****SPECIAL & STANDARD****LLOYD-HAMOL LIMITED**

require experienced Medical Representatives for Yorkshire (Leeds), West Lancashire (Liverpool), and South London. The positions offer the opportunity of joining an expanding British-controlled Company in the early stages of its development. The Company's products, the results of Swiss research, are unique and new products marketed will constitute important advances on existing therapies. A good salary will be paid and there is a bonus scheme; a Company car will be provided. Apply, in writing, to Lloyd-Hamol Limited, Trafalgar House, 11 Waterloo Place, London, S.W.1.

C 5013

PHARMACIST

A vacancy exists for a Pharmacist between the ages of 25 and 35 to control the production activities of an established Company in S.E. London manufacturing a comprehensive range of pharmaceutical preparations. The position is a responsible one and offers attractive prospects. Commencing salary will be commensurate with experience and ability. Applications stating age, qualifications, experience and salary expected to Box C 5071.

ALLIED LABORATORIES LIMITED

Medical Representatives—due to further expansion there are vacancies in the following areas:—

1. Hertfordshire, Buckinghamshire and Bedfordshire.
2. Essex and Suffolk.

Previous experience is not necessary but candidates should have a good pharmaceutical background, reside on the territory and be a car owner. Remuneration — salary, commission and expenses. An attractive pension scheme is in operation. Write giving full details of career to date to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, W.1.

C 9918

Appointments—Continued
NEWMARKET GENERAL HOSPITAL, SUFFOLK

Assistant in Dispensing

Applicants should hold the Certificate of the Society of Apothecaries. Salary in accordance with Whitley Council Scale.

Applications stating age, experience, qualifications and the names of two referees to the Chief Pharmacist. C 5086

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

Applications are invited for the appointment of Pharmacist at the Highbury & Heathfield Hospitals, Nottingham, to commence duties as soon as possible. Salary £500 x £25-£575 x £30 (5)—£725 per annum, plus extra qualification allowance where applicable. Applications, stating age, qualifications and experience, together with names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham. C 5088

READING AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

for Royal Berkshire Hospital, Reading (Category V). Facilities for experience in all branches of pharmacy in enlarged department with full supporting staff. Apply Group Pharmacist at above Hospital. C 9865

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Locum Pharmacist

Vacancy exists from beginning of June to the end of September. Wage at rate of £15 15s. per week. Applications in writing, giving details, to Chief Pharmacist. C 5055

ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10 (Category IV)

- (a) Deputy Chief Pharmacist
(b) Senior Pharmacist

Applications are invited for the posts of (a) Deputy Chief Pharmacist, salary £655—£880 p.a.; (b) Senior Pharmacist, salary £605—£805 p.a., in a well-equipped department at the above hospital, which may be inspected by arrangement with the Chief Pharmacist, Whitley Council conditions. Applications to Acting Secretary, G. & D./H.M.C. at above hospital. C 5028

ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS

(General 384 beds)

Senior Pharmacist (Category III)

Applications are invited for the post of Senior Pharmacist vacant early June at the above hospital within easy reach of Central London. The Hospital covers a wide range of work with a busy and up-to-date Sterilising Department. Salary and conditions according to Whitley Council.

Applications stating age, qualifications and experience to the Chief Pharmacist. C 5059

ST. JOHN'S & MANOR HOUSE HOSPITAL MANAGEMENT COMMITTEE

ST. JOHN'S HOSPITAL, STONE, Nr. AYLESBURY, BUCKS

Locum Pharmacist

required for period July 9 to July 21 inclusive. £14 14s. weekly.

Please apply with one reference to the Secretary, St. John's Hospital. C 5087

ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1

Pharmacist

required for this teaching Hospital. Salary in accordance with Whitley Council scale. C 5078

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

required at Ashford Hospital, Ashford, Middlesex. Salary 16 guineas per week. Applications, stating age, qualifications and experience with copies of up to three recent testimonials to Medical Director of Hospital, immediately. C 260

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

required at Ashford Hospital, Ashford, Middlesex, on salary scale £500-£725 per annum, plus London Weighting. Post now vacant. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. C 262

THE LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

Vacancy for registered pharmacist. Salary £500 rising to £725 plus London Weighting according to previous experience and service. Dining-room facilities available. Write Secretary. C 219

THE ROYAL LONDON HOMOEOPATHIC HOSPITAL, GT. ORMOND STREET, LONDON, W.C.1

Assistant in Dispensing

Applications are invited for the appointment of (female) Assistant in Dispensing. Three months locum with view to permanency. Preferably with Apothecaries' Hall or similar qualification. Salary range £405-£515 p.a. according to age, experience and qualifications. Detailed applications to Secretary as soon as possible. C 5010

VICTORIA HOSPITAL, LEWES

Part-time Pharmacist

Applications are invited for the post of part-time Pharmacist at the above Hospital. Daily attendance needed for a total of approximately 24 hours per week. Salary etc., in accordance with the Whitley Council scale. Further particulars may be obtained from the Secretary, Brighton and Lewes Hospital Management Committee, Royal Sussex County Hospital, Eastern Road, Brighton, 7, to whom formal application should be sent immediately. C 5062

WEST WALES HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

Experienced Pharmacist required for locum work at the Pembroke County War Memorial Hospital, Haverfordwest, for the following periods: July 2 to 14; September 3 to 15 (dates inclusive). Salary 16 guineas weekly. Applications to N. A. Ball, Group Secretary, Glangwilli, Carmarthen. C 5047

WINCHESTER GROUP HOSPITAL MANAGEMENT COMMITTEE, ROYAL HAMPSHIRE COUNTY HOSPITAL, WINCHESTER

(Category V)

Senior Pharmacist

Assistant in Dispensing

Senior Pharmacist to supervise manufacturing department and for general work. Assistant in Dispensing required. Possession of Certificate of the Society of Apothecaries preferred, for duties in Pharmacy. Whitley Council Scale £355-£465 plus £20 for Certificate. Applications with names and addresses of two referees to the Group Secretary. C 5070

YORK "A" AND TADCASTER H.M.C.

Pharmacist

required for County Hospital, York. Salary £500 x £25 (3) to £575 x £30 (5) to £725 p.a. plus £25 p.a. higher qualification allowance, e.g., F.P.S., A.R.I.C. Applications, stating age, qualifications, experience and names of two referees to Group Secretary, Bootham Park, York. C 5048

SOUTH AFRICA**BIDDLE, SAWYER & CO. (AFRICA)
(PTY.), LTD., JOHANNESBURG**

are increasing the scope of their business and would be pleased to receive enquiries from manufacturers of Druggists' Sundries, Cosmetics, Perfumes, etc., requiring Sales Agencies in South Africa.

Please reply to Biddle, Sawyer & Co., Ltd., 4 Grafton Street, London, W.1.

C 5008

RIKER

Riker Laboratories Ltd. have a vacancy for a representative for Northern Ireland. A pharmaceutical qualification is desirable, but consideration will be given to other suitably qualified persons. A Company car is provided and remuneration is by salary, expenses, and bonus. There is a Company pensions scheme in operation. Previous experience is not essential as full training will be given.

Apply in writing in the first instance to Sales Department, Morley Street, Loughborough, marking the envelope "Medical Representative."

C 5068

**PHARMACISTS
FOR
AUSTRALIA**

Remunerative vacancies are available in Melbourne for Pharmacists.

- [1] From approximately £A1200 p.a. (according to experience). [2] Lower taxation. [3] Free passages for appointees and families. [4] Good accommodation arranged. [5] Early sailings.

Written applications giving details of qualifications in the first instance to:—

**Chief Migration Officer,
Australia House, London**

**FOR YOUR SON'S FUTURE MAKE
AUSTRALIA THE ANSWER**

SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word.
Box 2/-

RETAIL (HOME)

ENFIELD HIGHWAY. Young lady required for dispensing. Permanent position. Salary according to age and experience. Three weeks' holiday a year. Apply to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916. C 9996

GREENFORD. Branch manager pharmacist required for busy shop and good dispensing connection. Excellent opportunity for ambitious man to earn substantial salary and bonus. Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits. Accommodation available if required. Apply with full details stating when available for interview to Box C 3613.

ILFORD. Branch manager pharmacist required for busy shop and good dispensing connection. Excellent opportunity for ambitious man to earn substantial salary and bonus. Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits. Accommodation available if required. Apply with full details stating when available for interview to Box C 3567.

KINGSBURY. Pharmacy manager required to manage a good-class establishment in this area. Splendid opportunity for promotion. There is a good supporting staff and development is assured. Flat accommodation can be provided if desired. Applications to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 3614

LADY ASSISTANT REQUIRED, experienced, for counter, display, stock control, etc. Multiple training and knowledge photographs an advantage, most agencies. Staff of four. State salary required, and usual details to Skidmore, 30 High Street, Banstead, Surrey, Phone Burgh Heath 720 (Burgh Heath 2024 after 7 or Sunday). C 3552

LONDON, S.E. Pharmacist (male or female) to manage medium-class branch pharmacy. Salary, commission and free flat, Frank Leslie (Chemists), Ltd., 25 The Broadway, Catford. C 3615

LEICESTER CO-OPERATIVE CHEMISTS, LTD. Chemist-manager required either sex, for entirely new pharmacies to be opened shortly. Excellent wages and conditions, bonus on prescriptions. Apply in writing to Secretary, Leicester Co-operative Chemists, Ltd., Union Street, Leicester, endorsed "Pharmacy." C 3505

LONDON. Stock pricer required for well-known stocktaking firm. Substantial salary. Permanency. Five-day week. Apply Box C 255.

LONDON, W.C.1. Young lady required as junior counter assistant, with or without previous experience. Saturday half-day. Excellent experience to be gained particularly in cosmetics. Apply to Box C 5041.

MANCHESTER. Experienced invoice pricing clerks required; either sex. Box C 9977.

MIDLAND AREA. Senior stocktaker required. Must have had several years' experience in pharmacy. Substantial wages. All expenses paid. Permanency. Apply Box C 259.

NORTH LONDON. Young man required for assembling orders in wholesale drug department. Permanent and progressive position with Saturday half-day. Apply to Box C 5042.

N.E. SCOTLAND. Pharmacist, lady or gentleman, required as manager of branch shop. Good hours and congenial conditions. Permanency for suitable applicant. Please state full particulars to Box C 3609.

NORTH LONDON. Unqualified assistant required chiefly for dispensing for branch near the Angel, Edmonton. Permanency. Hours 9 a.m.-6 p.m. Thursday 1 p.m. Salary according to age and experience. Three weeks' holiday a year. Apply to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916. C 5033

QUALIFIED LADY DISPENSER-BOOK-KEEPER required immediately. Semi-rural practice. Furnished accommodation available. Salary by arrangement. Apply Dr. Maurice Lee, Danbury, nr. Chelmsford. C 3604

SUPERINTENDENT PHARMACIST. Permanent position. N.U.C.O. Scale and conditions. Wage over £1,000 p.a. with additional rota payments. Housing, applicants' own responsibility. Applications, stating age and experience, to the Secretary, West Stanley Co-operative Society, Ltd., Front Street, Stanley, co. Durham. C 254

SOUTH STAFFS. Applications are invited for the position of Manager-Superintendent of well-known pharmacy with extensive ciné and photographic connection; the offer should be of particular interest to a chemist with organising ability, desirous of obtaining a first-class appointment at a commensurate salary, and one that possesses undoubted scope for advancement; a financial interest that can be acquired outright or over a period, will also be offered to the right type of applicant. All confidences strictly observed. Please write initially to Box C 253.

STOCKTAKERS required, resident in Manchester area. Apply Ernest J. George & Co., Victoria Buildings, 32 Deansgate, Manchester, 3. Tel.: Deansgate 6051. C 9976

TOTTENHAM. Pharmacy manager required to manage a good-class establishment in this area. Splendid opportunity for promotion. There is a good supporting staff and development is assured. Flat accommodation can be provided if desired. Applications in first instance to Box C 3568.

WANTED, PHARMACIST (male or female). As Superintendent. Private house available. Good hours and conditions. No Sunday work. Full particulars on application to the Garndiffaith & Varteg Co-operative Society, Ltd., Garndiffaith, Mon. C 3589

WOLVERHAMPTON. Superintendent-Manager required for old-established pharmacy with extensive scope for expansion; the opportunity should be of particular interest to a young, ambitious chemist with personality and drive; a financial interest in the business will also be available to him if required, but an immediate capital investment is not expected unless the applicant so wishes; good basic salary and bonus on net profit. Please write initially, and under assurance of confidence, to Box C 258.

LOCUMS WANTED

LOCUM TENENTES pharmacists are required for an extended tour of duties in the London and suburban districts. Permanency at conclusion of tour if desired. Hours 9 a.m. to 6 p.m. Paid holiday. Salary and expenses basis. Applications to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 3569

Situations Vacant—Continued

QUALIFIED LOCUM required for whole of June, Basingstoke, £20 per week. No Sunday or half-day duty. Small dispensing. Apply with references. Kenneth E. Reed, 5 Queens Parade, Basingstoke. C 3603

WHOLESALE

A LARGE FIRM of manufacturing chemists require the services of a qualified chemist, age 30/35, with manufacturing experience, particularly in connection with malt extract. Apply stating age, details of experience and salary required to: Box C 5079.

ASSISTANT PURCHASING OFFICER

The International Purchasing Office in London of The Olin Mathieson Chemical Corporation, New York, requires the services of an assistant purchasing officer. This position is concerned with the purchase of a wide range of pharmaceuticals, chemicals and engineering equipment in the U.K. and Europe on behalf of an extensive network of overseas manufacturing plants. The applicant should be under 40 and must have had at least five years of buying experience in chemicals and equipment in world markets. This purchasing operation offers scope for ability and initiative and a fine career opportunity. Replies, which will be held in strict confidence and should detail education, business career and present salary, should be addressed to the Secretary, E. R. Squibb & Sons, Ltd., 17/18 Old Bond Street, London, W.1. C 5075

H. E. DANIEL, LTD., St. Bernard Works, London, S.E.19, suppliers of raw materials to the following trades, require a representative to call upon mineral water and confectionery manufacturers, perfumery and soap manufacturers, manufacturing chemists and wholesale druggists, in London and Home Counties. Experience desirable. Salary, commission, superannuation and car provided. Apply in confidence, with full details to the Managing Director. C 261

ETHICON SUTURE LABORATORIES, LTD., require a pharmacy graduate for control and development work on sterilisation processes, aseptic procedures and component quality. This is a progressive post for which a starting salary commensurate with age and experience will be paid. Canteen, five-day week and pension scheme in operation. Apply in writing to Technical Director, Bankhead Avenue, Edinburgh, 11. C 5019

EXPERIENCED REPRESENTATIVES required all areas and coastal towns excepting Scotland with live connections calling on retail chemists, stores, etc.; to carry entirely new and well-introduced André Philippe products selling throughout the year. Full advertising support. Best commission rates offered. Write full details to Silmor Distributing Co., 34 Caledonian Road, London, N.1. Tel.: Ter. 0866. C 5036

MARKETING EXECUTIVE, William R. Warner & Co., Ltd., require a Marketing Executive for their ethical pharmaceutical products. This is a newly created post offering considerable opportunity for advancement. Applicants should have had experience of all aspects of marketing both new and established products in this field. Commencing salary according to qualification and experience and will be adequate to attract an experienced and enthusiastic executive. The company has a generous, non-contributory pension scheme. Applications, stating age, qualifications, positions held and salary earned, should be sent to Director, William R. Warner & Co., Ltd., Power Road, London, W.4. C 5072

MEDICAL detail man required to call on doctors in and around South London, following upon considerable expansion in sales and range of our prescription products. Applicants should submit details of salary required, experience, age, availability, etc., to Box C 5069.

PARKE, DAVIS & CO., LTD., want an advertising assistant, age early 20's. He will be required to write some copy, assist in print production and handle display work under supervision. 5-day week. Generous pension plan. Staff restaurant. Write with full details of age and experience to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 5080

MEDICAL REPRESENTATIVES

Genatosan, Ltd., a member of the Fison Group, require Medical Representatives to cover general practitioners, hospital medical officers, etc., for territories in the following areas:

- (a) South-east England,
- (b) South-east Midlands,
- (c) South Yorkshire.

These posts are well remunerated with incentives and good prospects for keen and energetic men possessing the ability and desire to make a success of this specialised work. A successful applicant will have to reside on his territory. Full personal details with a summary of attainments and experience, with a preference for territory, should be addressed to the Personnel Officer, Genatosan, Ltd., 12 Derby Road, Loughborough, Leics. Please quote reference MR. C 5032

MANUFACTURERS REQUIRE keen agents or representatives for developing sales of a limited range of superbly presented proprietary—mostly edible. Several territories available including London and Home Counties. Not an easy job to begin with but the products possess every virtue for building goodwill and a good living. Liberal commission basis to commence. Applicants must be car owners with strong connections. Please send fullest details including territory, age and selling background, Box C 3610.

MARKET RESEARCH ASSISTANT

A vacancy exists at their Head Office of Pfizer, Ltd., Folkestone, for a young man who has a sound pharmaceutical background and is interested in the collation and indexing of medical, pharmaceutical and statistical information. The work involved will demand close attention to detail. The Company operates a non-contributory pension scheme. Those applicants who have previously applied need not reapply. Applications in writing should be made to the Personnel Officer, Pfizer, Ltd., 137/139 Sandgate Road, Folkestone, and quoting reference MR/2. C 5083

MERCK-SHARP & DOHME, LTD.**Medical Representatives**

Vacancies will shortly occur for Medical Representatives in (a) Northumberland; (b) Lancashire. Applications are invited from pharmacists or men with a good pharmaceutical and/or medical background (age 23-35) who are desirous of making this type of work their career. Previous experience as a Medical Representative an advantage but not essential, as training will be given. Good commencing salary and all expenses paid. Car provided and pension scheme in operation. Apply: Sales Manager, Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts. C 5081

PACKAGING SUPERVISOR required for department handling tablets, etc., in small and bulk packs. Must have been used to controlling female staff and preferably with some experience in pharmaceutical products. Apply Matthews & Wilson, Ltd., 6/8 Cole Street, S.E.1. C 5063

REPRESENTATIVES WANTED, calling on chemists and hairdressers, to carry three good additional lines, on commission basis, Scotland, Wales, and all areas England, Box C 3616.

SALES EXECUTIVE, William R. Warner & Co., Ltd., require a Sales Executive for their ethical pharmaceutical products. The successful applicant will be expected shortly to assume the duties of Sales Manager. Applicants should have had experience of all aspects of medical representation and have a good knowledge of planning and control of this type of work. Commencing salary according to qualification and experience and will be adequate to attract an experienced and enthusiastic executive. The company has a generous non-contributory pension scheme. Applications, stating age, qualifications, positions held and salary earned, should be sent to Director, William R. Warner & Co., Ltd., Power Road, London, W.4. C 5073

REPRESENTATIVE, 25/35 required, South Wales, for established territory by wholesale and manufacturing chemists, preferably residing in district, experience essential. Attractive remuneration with good basic salary, commission, full expenses, car provided. Box C 3611.

SALESMAN REQUIRED for North-west Midlands by leading toilet manufacturer selling nationally advertised lines to chemists and similar outlets. Previous experience with chemists an advantage but not essential. The position is progressive and superannuated. A company car will be provided. Remuneration is by salary, commission, with expenses paid. Write giving details of age and experience together with present salary to Box C 5089.

SENIOR LABORATORY TECHNICIAN

required by Pfizer, Ltd., for pharmaceutical development work at their Folkestone plant. Applicants, who should preferably be educated to Inter. B.Sc., or equivalent standard in Chemistry, Physics and Maths, should have previous experience of Laboratory work with either a Pharmaceutical or Chemical Company. Alternatively, experience in retail pharmacy would be of advantage. The position is a new one in an expanding Company, and offers good prospects. A generous non-contributory pension scheme is in operation, and a 5-day week is worked. Applications in writing should be made in the first instance to the Personnel Officer, Pfizer, Ltd., 137/139 Sandgate Road, Folkestone, and quoting reference F/EL/1. C 5084

SENIOR LABORATORY ASSISTANT required in laboratory of pharmaceutical manufacturers in South-west Lancashire. Opportunities for further study if necessary. Please send full details to Box C 5043.

STORE-KEEPER required (male), age 30-35 years (approximately). Previous experience in the pharmaceutical trade essential. Pensionable position for suitable applicant. Hours: 9-6 weekdays, 9-1 Saturdays, with one free in four. Apply personally to Macarthy's (Wholesale Chemists), Ltd., Seymour Road, Romford. C 3602

TABLET MAKER, preferably with knowledge of cream manufacturing. Write stating age, experience, salary required to Cooltan Laboratories, Ltd., 67 Effra Road, London, S.W.2. C 5067

THE DISTILLERS COMPANY (BIOCHEMICALS), LIMITED, require a pharmacist to assist with pharmaceutical formulation development work at their factory at Speke, Liverpool. The vacancy, which is a progressive one in the research and development division, occurs as a result of expansion of the activities of the company. Applicants should preferably have had previous experience in formulation development. The work covers a wide range of products and will demand initiative and the ability to plan the experimental programme. Salary according to qualifications and experience. Non-contributory pension scheme, canteen and social facilities. Applicants should apply to the Personnel Manager, The Distillers Co. (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19. C 9991

WHOLESALE (OVERSEAS)

WEST AFRICA. A leading pharmaceutical company invite applications from pharmacists within the age group 23-33 to fill two important new positions with their Lagos sales organisation. These positions are progressive and offer an excellent career for those who wish to engage in representative work abroad. Tours of duty are short, with generous home leave. Apply initially in writing to Box C 5074.

AGENTS WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

AGENTS REQUIRED to carry as additional winning line cyder vinegar. Aid to slimming. Excellent commission basis to agent with connections amongst wholesalers, multiple and retail stores. Areas available throughout England. Write Box C 3606.

M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

SITUATIONS WANTED3/- for 18 words (min.) then 2d. per word.
Box 1/-**RETAIL (HOME)****EXPERIENCED DISPENSING ASSISTANT**, male (48), single, requires permanency, Southern Counties. Free one month. Box C 3608.**EXPERIENCED MALE** counter and dispensing assistant, all branches. Eighteen years' experience in retail. Thirty-five years of age. Box C 3612.**LOCUMS SEEKING ENGAGEMENTS****EMERGENCY LOCUM**, W. Edwards, M.P.S., c/o Loveluck Edwards & Co., Earlsfield, S.W.18. Wimbledon 1937/1346. C 3482**WHOLESALE****PHARMACEUTICAL CHEMIST, PH.C.**, under 40, experienced works manager, labour control, modern production methods, costing, purchasing, home and abroad, seeks similar position with progressive company. Box C 3607.**REPRESENTATIVE**, 43, excellent connections retail, wholesale, London, Southern Counties, seeks senior representation or sales management. Excellent references from present employers. Resident London, Box C 3586.**REPRESENTATIVE**, aged 29, seeks change. Four years calling manufacturing chemists, wholesalers, hospitals, England and Scotland. Pharmaceuticals preferred. Box C 5064.**REPRESENTATIVE**, experienced, seeks new position. Strong connection chemists, stores, multiples, London and suburbs. Highest credentials. Box C 3617.**YOUNG MAN** with Irish qualification, pleasant manner, good dispenser, seeks position in industry, or as dispenser. State salary. Box C 3605.**AGENCIES WANTED**17/6 for 36 words (min.) then 4d. per word.
Box 2/-**ESTABLISHED AGENT** with valuable connection chemists and stores in Lancashire and Cheshire requires additional first-class agencies, proprietaries preferred. Box C 3599.**BUSINESS OPPORTUNITIES**17/6 for 36 words (min.) then 4d. per word.
Box 2/-**INCREASE YOUR PROFIT**. Most chemists sell jewellery. Do you? Ear-rings, brooches, necklets, bracelets, etc., etc., retailing from 1/11 to 5/6. Selection parcels, £6 or £10 against two references or c.o.d. American Jewellery, 48 Herristone Road, Manchester, 8. C 3401
FRANCE. Reliable pharmaceutical manufacturer in France offers representation and advice in marketing, advertising and manufacturing. Box C 3549.**MANUFACTURING CHEMISTS** invite inquiries for the manufacture, packing, etc., of private formulae preparations, liquids, powders, tablets. Dispatch facilities available with own printing department, Frank Macowal & Yanatas, Ltd., Wilshaw Street, London, S.E.14. Tel.: Tideway 3846-8. C 122**Imitation Jewellery
PUT SPRING IN YOUR
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With white and coloured beads, matching Ear-rings, Flower Ear-rings, necklets, Pearls, Gilt-and-Diamante Jewellery, Bracelets, rings.

**Exclusive Continental designs stocked
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SAMPLE PARCELS £10 upwards C.O.D.
or two references****JODEZ (Manchester) LTD.
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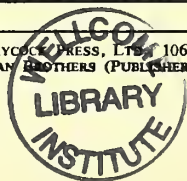
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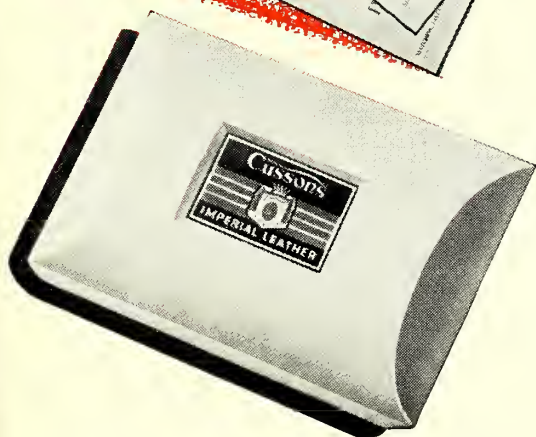
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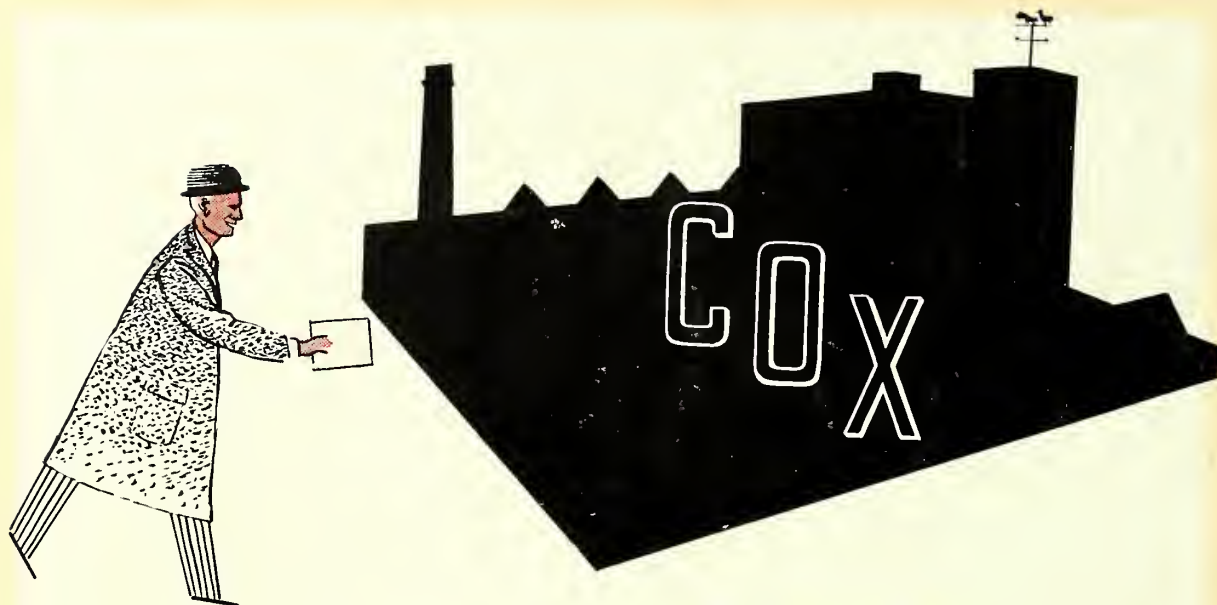
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